

The

HEMIST AND DRUGGIST

RETAILER - WHOLESALER - MANUFACTURER

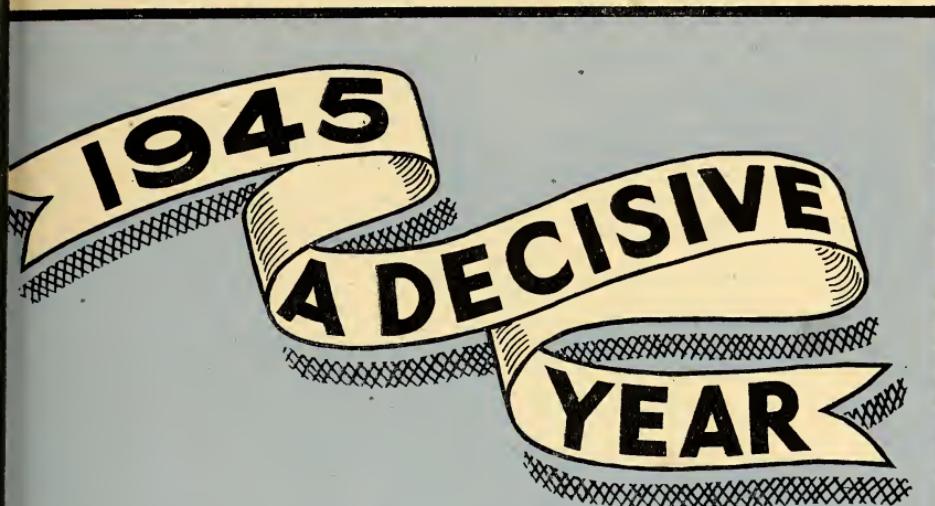
shed 1859

28 Essex Street, Strand, London, W.C.2.

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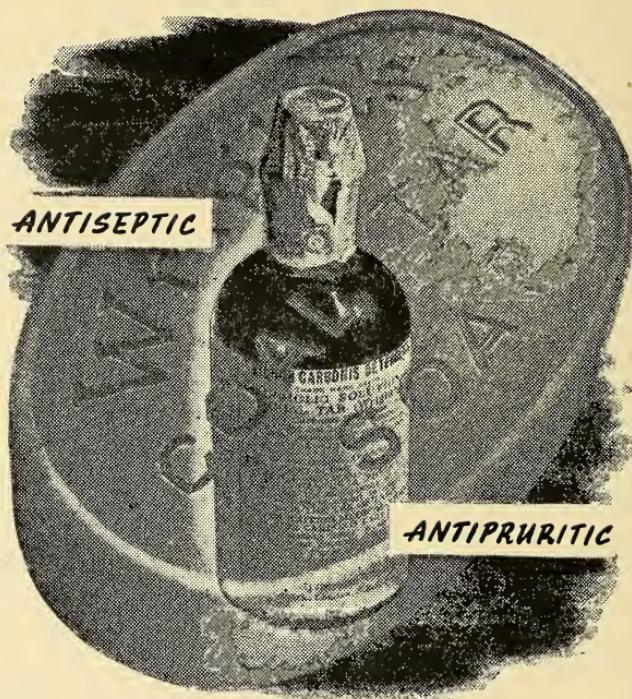
Annual Subscription (with
Diary) 25/- Single Copies 9d.

We thank our friends for their understanding and forbearance throughout these past years of trial, during which we have done our best to serve them.

Better times ahead will bring increased opportunities of service and we shall not be backward in availing ourselves of them.

J. F. MACFARLAN & CO.

109 Abbeyhill, Edinburgh, 8
8 Elstree Way, Boreham Wood, Herts.



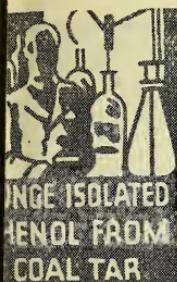
Origin of a ‘household name’

WRIGHT'S LIQUOR CARBONIS DETERGENS. By the preparation of Liquor Carbonis Detergents 80 years ago, the powerful antiseptic and antipruritic agents in Coal Tar were isolated for the first time from the residuary content of irritants and non-therapeutic substances. Publicly commended by an impressive succession of notable authorities, Liquor Carbonis Detergent soon provided the basis for a toilet soap that has been a household name for generations. Discouraging germs, Wright's Coal Tar Soap produces generous lather, specially soothing and very thorough in its cleansing.

Wright's

COAL TAR
SOAP





1834

We know something about **PHENOL**

WE felt like saying we knew all about Phenol, but realised more modestly that such knowledge is never static. But Monsanto pioneered pure Phenol, and have made more Phenol, finer Phenol than anyone else in this country. So if you want to know anything about the uses of Phenol, or its reactions in those applications, we can most likely tell you, and help.

But what we can't tell you, unaided, is just how you can apply our knowledge—or our Phenol—to your particular problems. Especially those post-war planning problems as yet under your hat.

Perhaps you think you might use Phenol in a rather different way, but don't quite see the method. Perhaps Phenol is a key to the problem troubling you. Perhaps you've not included Phenol in your possibilities, because you didn't realise its versatility.

We should appreciate a chance to talk it over. Our Technical experience is ready to bring Monsanto products to your service.

GRADES —

HENOL, detached crystal

HENOL, ice crystal

HENOL hydrates

HENOL, liquefied

HENOL/CRESOL mixtures

Natural and Synthetic

MONSANTO CHEMICALS LIMITED
Ruabon; Wrexham, Denbighshire

An effective treatment for

**COLDS • CATARRH • ASTHMA • RHINITIS
SINUSITIS • HAY FEVER • CONJUNCTIVITIS**

Also beneficial for certain other eye affections



RETAIL PRICE 3/7 INCLUDING TAX
LIST PRICE 2/10 INC. TAX
ESPECIALLY ATTRACTIVE TERMS DIRECT

ARGOTONE
REGD.
NASAL & EYE DROPS

RONA LABORATORIES LIMITED, 159, FINCHLEY ROAD, LONDON, N.W.3

Crookes' Halibut Oil

- a drop instead of a spoonful -



**NATIONAL WINTER
ADVERTISING CAMPAIGN
HAS NOW COMMENCED
— ORDER STOCKS NOW! —**

TERMS OF SUPPLY

1. Bonus in kind will be allowed only when one or more standard parcels G, H, J, K, L, M are ordered.
2. The order must be accompanied by cash. No pro-forma invoices can be issued.
3. Orders for broken parcels or unaccompanied by cash will not be entitled to bonus in kind.
4. Bonus in kind cannot be allowed on any other Halibut Oil Products.
5. We must reserve the right to restrict the number of parcels supplied to any one establishment and thereby, as far as possible, ensure fair distribution.

CROOKES' HALIBUT LIVER OIL					
Standard Parcels of Drops or Capsules only					
PARCEL G = 1 DOZEN	Bonus	Sell	£	s.	d.
12 x 15 c.c. 5½ Drops Less 25%	1	15 0	15	0	0
" Amount of cash withdrawn	10%		2 5	0	0
PARCEL H = 3 DOZEN			4 5	0	0
36 x 5 c.c. 2½ Drops Less 25%	3	42 0	42	0	0
" Amount of cash withdrawn	10%		3 12	0	0
PARCEL I = 1 DOZEN			2 14	0	5
12 x 30 c.c. 9½ Drops Less 25%	1	22 8	22	8	7
" Amount of cash withdrawn	10%		5 8	0	0
PARCEL J = 6 DOZEN			4 1	0	1
72 x 5 c.c. 2½ Drops Less 25%	12	63 12 11	63	12	11
" Amount of cash withdrawn	10%		7 4	0	0
PARCEL K = 1 DOZEN			5 16	0	0
12 x 100 Capsules Less 25%	1	24 17 2	24	17	2
" Amount of cash withdrawn	10%		5 2	0	0
PARCEL L = 3 DOZEN			3 16	6	0
36 x 100 Capsules Less 25%	3	43 8 10	43	8	10
" Amount of cash withdrawn	10%		15 6	0	0
PARCEL M = 3 DOZEN			11 9	6	0
36 x 100 Capsules Less 25%	3	41 0 6 6	41	0	6 6
" Amount of cash withdrawn	10%		1 3	0	0

THE CROOKES LABORATORIES (British Colloids Ltd.) PARK ROYAL, LONDON, N.W.10
Phone: Elgar 6313 (5 lines) Telegrams: Collosols, Harles, London

FOR ORAL MEDICATION

KERFOOTS Proflavine LOZENGES

enable the affected tissues
to be bathed in a naturally
buffered antiseptic solution.

Each contains
Proflavine Sulphate 3 mg.
In bottles of 30 and 500
 $\frac{1}{8}$ and 20/- including Tax
Usual Terms

KERFOOTS Sulphanilamide LOZENGES

are of special value in
throat affections due to local
streptococcal infection.

Each contains
Sulphanilamide gr. 1 (S₄)
In bottles of 50 and 500
 $\frac{1}{8}$ and $\frac{13}{3}$
Usual Terms



Thomas Kerfoot & Co. Ltd., Vale of Bardsley, Lancashire

KG1

PROMOTES DEEP
REFRESHING
SLEEP

Cadbury's
BOURN-VITA
NEEDS NO SUGAR

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The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper should not be taken as an indication that they are necessarily available for export.

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DENTO PHENOLENE

1/3

INCL TAX

FOR ALL FALSE TEETH

Order your requirements NOW!

9/- per dozen less discount

6 dozen parcel less 5% & 2½%

12 " " " 10% & 2½%

F. C. CALVERT & CO. LTD., MANCHESTER, 11

ANACARDONE

Anacardone is Nikethamide of the B.P. It is indicated in all forms of respiratory distress or cardiac insufficiency: for example, in surgical and obstetric shock, collapse following submersion, electric shock, narcotic poisoning; and cardiac and respiratory insufficiency due to pneumonia, influenza, and other infections.

Modes of Issue: in ampoules of a 25 per cent. solution for intravenous, intramuscular, or subcutaneous injection (Injection of Nikethamide B.P.) and in solution (flavoured) for oral administration.

Anacardone is advertised to the medical profession, and pharmacists will be well advised to keep an adequate stock.



PRICES

Solution for parental administration:
 Box of 6 x 2 c.c. ampoules; Retail; 4/5.
 Wholesale per doz. 32/-; Plus Purchase Tax 5/4 per doz.
 Box of 12 x 2 c.c. ampoules; Retail 7/9.
 Wholesale per doz. 56/-; Plus Purchase Tax 9/4 per doz.
 Box of 3 x 5 c.c. ampoules; Retail 5/7.
 Wholesale per doz. 40/-; Plus Purchase Tax 6/8 per doz.
 Box of 12 x 5 c.c. ampoules; Retail 18/4.
 Wholesale per doz. 132/-; Plus Purchase Tax 22/- per doz.

A product of

THE BRITISH DRUG HOUSES, LTD., LONDON, N.1

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Improved Pack!

URILLAC

NOW IN TWO SIZES

8½ d. for 12 tablets

1/5 d. for 25 tablets

including tax.

Display these attractive new packs
on your counter and reap the benefit
from our consistent advertising and
growing sales.



"I know it is difficult"

RENDELLS
SILATEX
SANTRON
MENSINOLE

Your customers continually ask for **SILATEX** and **SANTRON** and yet you cannot obtain sufficient supplies to meet the demand. We are doing our best to arrange distribution to wholesalers so that all Chemists obtain their fair share. The demand is ever increasing but the shortage of raw material is a matter we know you will understand.

There is no shortage of **RENDELLS** or **MENSINOLE** and all Wholesalers now have ample stocks, so continue to display Rendells Products for Feminine Hygiene. It creates new customers and gives confidence to regular users.

Special Chemists' Display Material is still available, so write to-day for a supply.

RENDELLS PRODUCTS

PATA

For Feminine Hygiene

W. J. RENDELL LTD., HARDWICK HOUSE, 161-5 ROSEBERRY AVENUE, LONDON, E.C.1

★ ACCURACY
★ PURITY
★ QUALITY

. . . EACH IS A VITAL CONCERN!

Consult the Manufacturing Chemists who offer the benefit of long experience and scientific production facilities.

ARTHUR H. COX & CO. LTD. BRIGHTON

FOUNDED 1839

* Limited Supplies
of BAXEN
again available



The temporary hold-up on BAXEN has been overcome. Limited supplies are again available. BAXEN is the remedy of choice for women's "Trying Days." Now is the opportunity to replenish your stock. Best

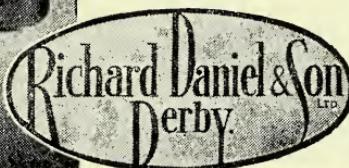
Terms are available on small orders when included with your order for other "GRIFFITHS HUGHES" lines.

E. GRIFFITHS HUGHES, LTD
ADELPHI, SALFORD, 3, MANCHESTER



Established 1860

MANUFACTURERS OF
TABLETS
AND
PILLS
For the
Pharmaceutical
Trade



'Phone: Derby 4266-7-8. 'Grams: Danie Derby



Box's Pills

our friend for more than 50 years,
OX'S PILLS carry on the good work
of helping the public's digestion
through difficult times.

A.T.A. retail prices (including P. Tax).
1/-, 3/-, 4/-, 10/-, 12/-, 21/9.

W. H. BOX
161 KING STREET, PLYMOUTH

THE "COLD LIQUID"
FRUIT PRESERVER

**THREE
POINT
PACK**



**2/11½ [INCLUDING]
TAX
FOR 12-2LB JARS OF LOVELY FRUIT**

Attractive Trade Terms from
GARDENLAND PRODUCTS, SEVENOAKS, KENT.

CLINICAL PRODUCTS LTD. announce that

Messrs. SCOTT & BOWNE LTD.

WEXHAM SPRINGS, STOKE POGES, BUCKS

(Sole distributors of Menopax Tablets)

HAVE TAKEN OVER THE SOLE DISTRIBUTION OF

MENOPAX CREAM (ANTIPRURITIC)

As from 1st March, 1945

Nine special representatives are daily bringing this preparation to the notice of medical practitioners, for the alleviation of PRURITUS and KRAUROYSIS VALVÆ and related conditions associated with the Menopause, also PRURITUS ANI in both sexes.

Menopax Antipruritic Cream is regularly advertised in all medical journals.

Please obtain your smalls through your wholesaler, or if you wish to obtain direct on best terms from Scott & Bowne, Ltd., you may do so in 1 doz. lots, or you may include any quantity with your order for Menopax Tablets.

Menopax Antipruritic Cream is packed in 1 oz. tubes or jars as available. Retail price, 4/10½, including Purchase Tax.



ORDER NOW—

This popular quick-selling line

“POROSAN”

Fruit Caps and Skin Rings

RETAIL 3/4 DOZ. (inc. tax)

Full Trade Discounts and Generous Terms for Quantities:

IN 3 PACKS

1 lb., 2 lb., and 50/50 (6 each size)

Also No. 3 Fruit Preserving Skin for sealing fruit preserved with Campden solution and for chutneys, pickles, etc. Rolls 1/- and 2/9.

Sole Distributors to the Trade:

S. MAW, SON & SONS, LTD.
Aldersgate House, NEW BARNET, HERTS.

★ Don't forget to order replacement rings as well..

POROSAN
Fruit Preserving
METHODS ARE BEST

Marketed by POROSAN LTD., 65/6 Chancery Lane, W.C.2

• MANOIDS •
• NEVROIDS
URICURE TABLET
OCCASIONAL PILL

THE ACTON PILL & TABLET CO. LTD.

ASH VALE, SURREY.

and all Sundries Houses.

SURE-SELLING STOCK
OVER 150 YEARS REPUTATION
KEARSLEY
THE ORIGINAL
WIDOW WELCH'S FEMALE PILLS
9d. BOX PROFIT by ordering 1 dozen 2/10.
Bonus box given on every dozen (13). It pays to push this size.
C. & G. KEARSLEY LTD.
71 DARTMOUTH RD., LONDON, N.W.3
Established 1787 In the Reign of King George III

FOR HEALTH and HYGIENE in the HOME

Boon Products are the result of scientific research which led to the discovery of Antiseptics possessing higher germicidal power than those previously available. Moreover, these new Antiseptics are incorporated in bases which enhance their cleaning and disinfecting efficiency.

Boon Doral

oz. bottles. The Antiseptic that Cleans.

Boon Skin Salve

oz. jars. Powerfully Antiseptic, non-greasy, protective and curative.

Boon Skin Emulsion

oz. bottles. Powerfully Antiseptic, cleaning, softening and protective.

Terms from S. MAW, SON AND SONS LTD.,
ALDERSGATE HOUSE, NEW BARNET, HERTS.

Info.: P. A. G. CHEMICALS LTD., EPSON, SURREY

MILLAMALT

Sole Manufacturers.
JEFFREYS MILLER & Co. Ltd. Leyland Mills, WIGAN, London Dent. 19 Brookside Road, N.19

The VITAMIN MALT FOOD

With Vitamins (A-2,000 I.U.; D-140 I.U.)
per fl. oz.

DR. NIBLETT'S VITAL RENEWER NERVE SEDATIVE

TRADE TERMS—33½% to Chemists or
through your Wholesaler.

Retail Price 5/- per bottle, including tax.

Prepared by C. P. NIBLETT Est. 1870

10, Lichfield Terrace
RICHMOND, SURREY Phone RIC 3221

PEROX CHLOR

Keene's Laboratories Limited will be glad if chemists who were selling Perox Chlor before the war and who now have a difficulty in getting reasonable supplies will write direct to their office at 46 Elswick Rd., Newcastle-on-Tyne 4

Makers of **COMPRESSED TABLETS**
for the Manufacturing and Wholesale Trade only

The DALES ASPIRIN COMPANY

PROPRIETOR
(H. A. TOLKIEN)

SILSDEN, Mr. KEIGHLEY, Yorks.

Output of Saccharin
and Aspirin Tablets sold for some months ahead

CELLON SERVICE

FOR INDUSTRIAL WELFARE

FOR HEAD LICE CELETANE

(Regd.)
Medicated (Lethane) Hair Oil—N.W.F.
Undetectable in use. Rapidly effective.

FOR SCABIES BENZELIA

(Regd.)
Benzyl Benzoate—25%

An emulsion of high efficiency, extremely effective in the treatment of this infestation.

Further information, samples and prices upon request

KINGSTON - ON - THAMES

KINGSTON 1234 (5 lines)

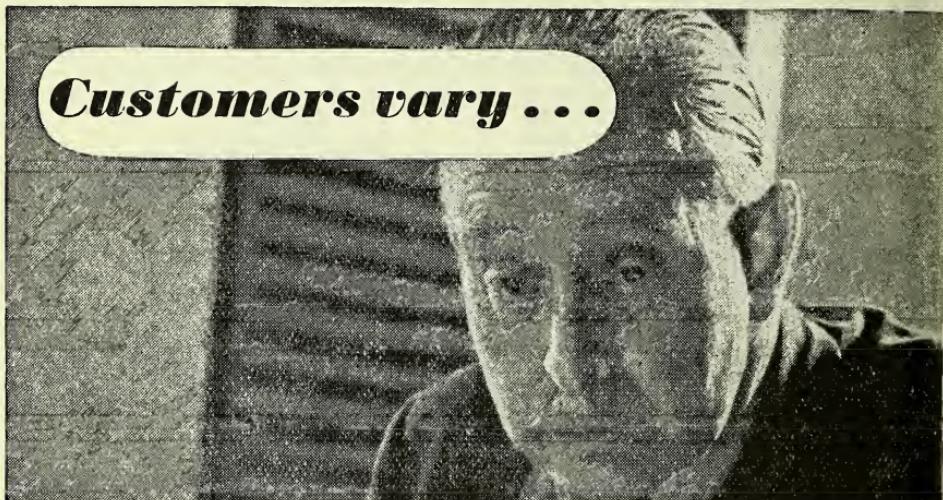
CELLON LABORATORIES

LIMITED

cvs-37b

Pharmacist and psychologist — the chemist is both. His customers' purchases not only go into the medical cupboard but sometimes give a glimpse of the skeleton there — troubles which the skill of the pharmacist does its best to overcome.

Customers vary . . .



There's the "NERVY CUSTOMER." You know he is nervy, not so much from his manner as from the specifics he buys. More and more of these people are realising what you, of course, have known for years — that Benger's, in resting his gastro-intestinal tract as well as his brain in sleep, is going a long way towards a permanent cure for his "nerves." This is constantly stressed in Benger's widely circulating and repeatedly appearing advertisements. It is rapidly enlarging the range of Benger sales.

***... but you can invariably
sell them —***



**90% of your customers need Benger's
and are being educated to ask for it**

SOMINOX

'SLEEP AT NIGHT'

TABLETS

There is an ever-increasing demand for a sleeping tablet that is perfectly harmless and non-habit forming.

Chemists think that SOMINOX will meet your full approval.

Time is worthy of your consideration. Already we have commenced an advertising campaign which will shortly develop on a large scale. This city could benefit you. Send for particulars.

Full Price 2/6 per tube, including tax.

Less 5% Cash with Order 18/- per dozen plus tax.

Purchase Tax 16½d per cent.

Wholesale Terms. Less 12½% and 2½%, 7 days.

Bonus Parcels (Cash with Order)

13 to the dozen

dozen 2/6 at 18/- per dozen	£1 16 0
Less 5% Cash with Order	1 10

Purchase Tax at 16½ per cent.	£1 14 2
" " on bonus	5 8

" " "	6
-------	---

£2 0 4

LD ONLY

CHEMISTS



Manufactured by
SOMINOX LTD.,
24/26/28 CHAPEL ST., BRADFORD

INFLUCOL

REGD.

'For'
PREVENTION & TREATMENT
of the
COMMON COLD



To prevent colds—A 20-day course of INFLUCOL (Oral Vaccine) provides a form of inoculation and mildly impregnates the system with a general antibody protection against cold and 'flu toxins.'

To attack cold infection in its early stages—INFLUCOL (Oral Vaccine) taken as directed will mildly help to neutralise the infection and prevent its development.

To end an existing cold quickly—INFLUCOL (Oral Vaccine) should again be taken, when cold symptoms should vanish within 24 hours, though it is advisable to continue treatment until the package of 20 pellets has been taken.

Bonus parcel (Cash with order)
13 to the dozen

3 dozen 2/11 INFLUCOL at 21/-	£3 3 0
Less 5% cash with order	3 2

Purchase Tax at 16½ per cent.	2 19 10
" " on bonus	10 0

	10
	£3 10 8

INFLUCOL

REGD.

INFLUCOL LTD. . . BRADFORD

IF YOU'RE OUT OF ONE RECOMMEND THE OTHER



In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two Parmints.

At the moment the ready for use Parmint Syrup is in short supply. If you are temporarily out of stock, recommend your customers to take a bottle of the Parmint Concentrated Essences.

All our press advertising features both Parmints, and mentions their prices.



and

P.A.T.A.

INTERNATIONAL LABORATORIES LTD., CHARLBURY, OXFORD



FOR
ARTHRITIS
PARTICULARLY THE
INFECTION TYPES

"S.B.T."
BRAND

STERILISED
SOLUTION

NEW PRICES :

	10 c.c.	60 c.c.
Retail Price -	12/5 each	61/8 each, inc. Tax
Net Medical Price -	11/3 each	56/2 each, inc. Tax
Retail Chemists -	90/- doz.	444/- doz. Tax extra

Medical Literature available

C. J. HEWLETT & SON, LTD.
35/43 Charlotte Road, LONDON, E.C.2



'I've heard
BESORBON
is excellent
for Colds'

The demand for BESORBON medicinal increases during the winter, and a display or counter is a further reminder. Order by the so as to obtain this attractive counter display Obtainable through all registered Wholesale Ch

KEMSALES LTD
20 EASTCHEAP LONDON E

NODAN

NODAN—Prepared from a new and highly scientific formula obtains results very rapidly. Eradicates scalp disorders, stops scurvy. Non-toxic, non-greasy, does not stain. Sells at 3/10½d. per bottle, including tax.

SPECIAL INTRODUCTORY BONUS OFFER

Full particulars on application from the
SOLE DISTRIBUTORS
FASSETT & JOHNSON, LTD.
36 Clerkenwell Road, London, E.C.I

Bottle Crisis unless —

The return of all S.D.I. bottles is imperative and urgent. Millions of bottles are needed each week to carry drinks to the Forces overseas and those bottles cannot be returned. The bottle manufacturers, already faced with a shortage of fuel and labour, cannot both replace these and fully replenish the stocks of the manufacturers of soft drinks, who will have to rely largely on returned empties.

If all empties are returned the crisis may not arise; if not someone will have to go short of supplies and it may be YOU.



The Soft Drinks Industry (War Time) Association Ltd.
OVS-30

Dr. J. Collis Browne's Chlorodyne and The Pharmacy and Poisons Act, 1933

Dr. J. Collis Browne's
CHLORODYNE

SALE RESTRICTED TO REGISTERED CHEMISTS

PURCHASER'S SIGNATURE NOT REQUIRED

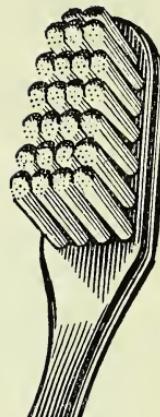
Sole Proprietors:

J. T. DAVENPORT LTD.
UNION ST., LONDON, S.E.I

P.A.T.A.



IT'S JUST COMMON SENSE



WE haven't been doing much advertising to you recently. It's no good telling you Wisdoms are scarce. You know that. It's no good telling you that we're doing our best to keep you supplied—we'd be pretty dense if we didn't. Till better days come we've all got to carry on as best we can and that's all there is to it.

But one plain, common sense point remains clear and unaltered in spite of war. A person who has been well served doesn't forget that service. Even though many people have had to do without their Wisdoms, they'll never forget the toothbrush that served them so long and so well. It's simple logic and it's true to say —Wisdom users are very satisfied—the satisfied customer will always come back.

Wisdom
TOOTHBRUSH

CUTLASTS
THREE
ORDINARY
BRUSHES

Addis Limited, Makers of the First Toothbrush
in 1780.

Welcome
home the
Exiles

Dianthus

Florigan . . .

Mic

Three lovely exiles . . . together with some forty of their equally distinguished and charming sisters—have been absent from us for five long years. The hour of their return is surely near.

In a matter of months—or so we believe—the import of authentic and synthetic flower oils for perfumes and cosmetics will greatly ease and the present starved condition of our market become much ameliorated.

May we suggest that the time is ripe for you to contact us regularly in order that we—who have our finger on the pulse of events belonging to the trade—may keep YOU in touch with developments of mutual interest as they arise?

**Polak &
Schwarz**
(ENGLAND) LTD.

Manufacturers of Perfume Bases, Flower Oils,
Soap Perfumes, Essential Oils and Aromatic
Chemicals.

50 Great Cambridge Rd., Enfield, Mddx.
Telephone: ENFIELD 3244-5 and 2573.



Plastic Presentation by

A • B PRODUCTS



Springlodge Works,
Mannings Lane,
Bradford
Phone & Grams 6548-9

Enquiries through Wholesale only

Some of the products are available now, but others serve to illustrate our post-war development.
Wholesale enquiries welcome. Retailers should advise us of their usual wholesale supplier



WARD, BLENKINSOP

AND COMPANY LTD
Chemical Manufacturers
BROOKLANDS • HALEWOOD

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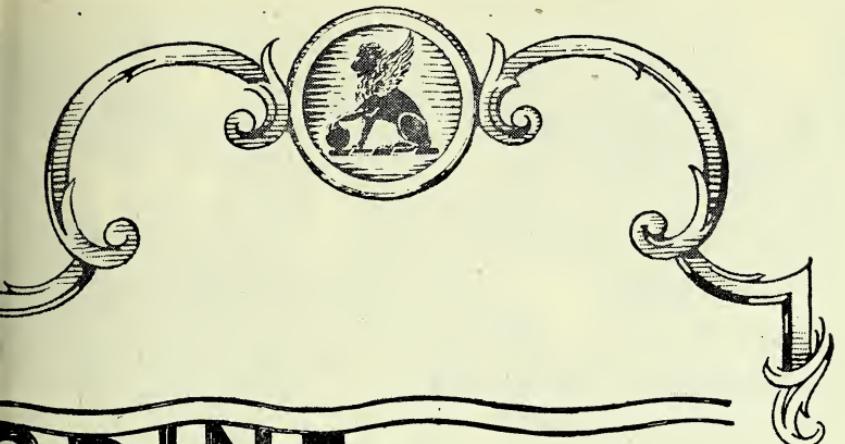
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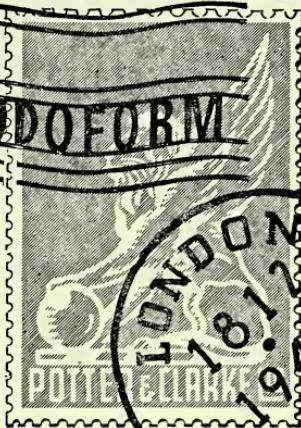
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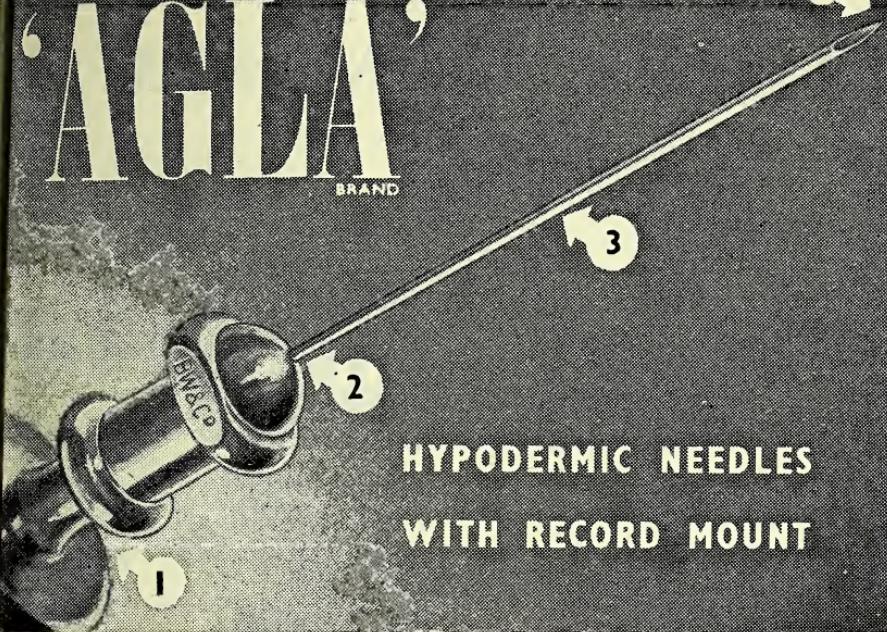
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NEWS OF THE WEEK

General Practitioners' Remuneration.—An Interdepartmental Committee recently set up by the Minister of Health and the Secretary of State for Scotland to advise on a range of total professional income for registered medical practitioner in any publicly organised service of general medical practice, is inviting evidence from organisations directly interested. Bodies of persons, other than those specially invited, who wish to place their views before the Committee should submit memoranda to the joint secretaries of the Committee, Ministry of Health, Whitehall, London, W.1, before the end of April.

Mails to France and Greece.—The maximum weight for letters and letter packets to France has been raised to 4 lb.; the rate is threepence for the first oz. and 1½d. for each additional oz. Business and financial correspondence is still confined to ascertaining facts and exchanging information, but correspondence may now be prepaid for express delivery. Senders must comply with censorship-permit, currency-control

and export-licensing regulations. The service is available to the whole of France except the Departments of Meuse, Meurthe-et-Moselle, Vosges, Haute Saône, Doubs, Moselle, Bas-Rhin, Haut-Rhin and the territory of Belfort. No air mail, insured, money order or parcel-post service is at present available. From March 19, printed paper for most areas in France will be accepted at the rate of one penny for 4 oz. (minimum 2½d.), subject to the censorship permit regulations. The postal service to Greece (including Crete) has been extended to include private and business letters not exceeding 1 oz. in weight. Business letters are restricted to those ascertaining facts and exchanging information. Postage rates are: Letters, 3d.; postcards, 2d. Correspondence is not accepted for registration, insurance or express delivery; and no air mail, money order or parcel post service is available.

Factory Loan Sought.—Liverpool Corporation is making application to the Ministry of Health for sanction to borrow

£11,000 to cover the cost of alterations and extensions at a factory at Speke, Liverpool, which has been leased for twenty-one years to C. W. Field, Ltd., manufacturing chemists.

Raw Materials Guide.—Supplement No. 4 to the Raw Materials Guide has been issued by the Ministry of Supply, and is obtainable from H.M. Stationery Office, price one penny.

Kent Analyst's Report.—The report for 1944 of the Kent county analyst states that 316 specimens of drugs were examined. A malted tonic contained less than half the stated amount of compound syrup of ferrous phosphate, and two samples of sweet spirit of nitre were deficient in ethyl nitrite.

Industries for Blackpool.—The Corporation of Blackpool has received several inquiries about the establishment of light industries in the town, and the town clerk has been authorised to continue negotiations with probable newcomers and to prepare lists of special inducements Blackpool can offer.

Retreat for Pharmacist Ladies.—A Retreat for ladies who are members of the pharmacy branch of St. Joseph's Young Priests' Society will be held at Mount Anville Convent, Dundrum, co. Dublin, during the week-end April 7 to 9. Application should be made without delay to Miss C. O'Reilly, M.P.S.I., 102 Lower Leeson Street, Dublin.

Eire Pharmacist Golfers.—Mr. T. R. Bourke, Ph.C., has been re-elected captain of the Sutton Golf Club. Mr. Phil Fahey, Ph.C. (secretary, Irish Chemists' Golfing Society), has been elected treasurer of the Hermitage Club; Mr. A. D. Davidson, Ph.C., to the committee of the Castle Club; and Mr. C. Foley, Ph.C., captain of the Elm Park Club.

Wine Licence Refused.—An application to the Derby justices by Wrights, Ltd., chemists, for a licence to sell tonic wines at their establishment in Clarence Road, Derby, although supported by a letter from six medical practitioners declaring that the licence would be to the advantage of the public, has been refused. Opposition was forthcoming from brewers, wine and spirit merchants and off-licence holders.

Work for Red Cross.—Three years' work by Mr. G. Mains Shaw, M.P.S.N.I. (treasurer, Red Cross Penny-a-Week Fund, Carrickfergus, co. Antrim), and two other

honorary collectors has brought in £1, from house-to-house collections in Carrickfergus and district; a further £250 been raised for other war charities. Owing to ill-health, Mr. Shaw is resigning his position as treasurer, but is placing his services at the disposal of the Ulster Committee of the Fund in a consultative capacity.

United States Commercial Condition. The first five of a series of reviews of commercial conditions in twenty-six overseas countries, prepared by the Department of Overseas Trade, is now available. These booklets are designed to assist British concerns with their post-war export plans, describe commercial conditions in the various countries before the war, with particular reference to their trade with the United Kingdom, war-time changes in the economy and external trade, and the opportunities they offer for United Kingdom goods. The five booklets now available concern the United States, Bolivia, Brazil, Chile and Peru (H.M. Stationery Office, York House, Kingsway, London, W.C.1, price sixpence each).

Irish Chemists' Rugby.—The Irish Chemists' Rugby team met Dublin Insurance Athletic Society in a match in Dublin recently, when the Insurance team emerged victors with eight points to four. Many pharmaceutical friends of the team turned up to watch the match. Subsequently both teams, with their supporters and friends, sat down to supper at the Jules Hotel, where those present included Messrs. F. X. Meagher (president, Chemists' Rugby Club), C. J. Cremen (president, Pharmaceutical Society of Ireland), Lyall G. Smith (president, Irish Drug Association), Costelloe, P. A. Brady, and P. McAuley. Mr. J. J. Tierney replied to the toast of the chemists' team. Mr. Meagher proposed the toast of the insurance team.

Blackpool Motions for Annual Meeting. The Blackpool Branch of the Pharmaceutical Society has sent a letter to the secretary of the Pharmaceutical Society asking for the following matters to be on the agenda for the annual meeting of the Society in London on May 16:—

1. All resolutions passed at branch or Branch Representatives' meetings shall be acted upon by the Council forthwith, or reasons for doing so be published in the "Pharmaceutical Journal" after the next meeting of the Council or a report shall be issued to the meeting concerned of the findings of the Council, together with the names of the councillors for or against the resolution.

The "Pharmaceutical Journal" shall publish reports of addresses made by Council members at branch meetings, and such reports meetings as are of interest to the general body of retail pharmacists, abbreviating scientific papers, if necessary, for that purpose.

Before the 1946 election of councillors, a scheme shall be worked out for area representation.

The branch secretary, in forwarding the resolutions, adds: "As the principles behind these motions have been of great controversy for many years, I should be obliged if you would give them the utmost publicity, so that the true reactions of the country will be observed before and at the annual meeting."

Lecture on Newer Vitamins.—Dr. J. N. Davidson (lecturer in biochemistry at Aberdeen University) said recently, in an address to the Royal Society of Edinburgh:

"The Newer Vitamins," that pantothenic acid—one of the members of the family that make up vitamin D—prevented the onset of grey hair in black rats and silver foxes, but had little or no effect on grey hair in human beings. Biotin, one of the most active biological substances known, could exert an effect when present in dilutions as great as one ounce in ten million tons of water. Rats on a diet containing white of egg, but no biotin, suffered from a serious condition called "egg-white ery," which could be cured by less than one ten-millionth oz. of biotin daily. Egg-white injury was naturally rare in man, but could be produced artificially in volunteers, and one strange case, arising spontaneously in an American chicken-farmer who lived entirely on eggs, had been cured by biotin. Choline was required in the diet to control the deposition of fat in the liver. Another substance required by the liver is the amino-acid methionine. Its administration was likely to prove of benefit in some types of liver poisoning, and in preventing the loss of nitrogenous material in the urine after injury by burning.

Eire Midland Chemists.—The annual meeting of the Midland Chemists' Association was held at Maryborough recently, when the following officers were elected for the year: President, Mr. D. P. McHugh, Athy; Treasurer, Mr. Joseph Hughes, Maryborough; Secretary, Mr. F. P. Ryan, Mountrath. Mr. McHugh was nominated to represent the Association at the delegates' meeting of the Executive Committee of the Irish Drug Association at Dublin. On the proposition of Mr. P. A. Hara, Abbeyleix, seconded by Mr. J. B.

Bolger, Maryborough, the meeting decided to accept under protest the recent agreement entered into by the I.D.A. Committee with Coras Iompair Eireann (Irish Transport Co.) fixing scales of charges for dispensing and compounding medicines for all employees of the company. The I.D.A. committee was held to be acting contrary to Rule 18 of the Association's regulations in entering into the agreement. The meeting requested an assurance that no further agreements of the kind would be entered into without prior consultation and consent from members of the I.D.A. as a whole. Mr. Brendan Smith (organiser), who was present on behalf of the I.D.A., pointed out that the members of the committee who negotiated the agreement were themselves retailers in business, and had the full support of chemists for the work they had been doing over a large number of years. This was the first agreement that had been criticised for many years. In making the agreement the committee acted as business men and got the best terms possible; the agreement was applicable only to a limited number of prescriptions, and anything outside the schedule of the formulary could be charged for at the full retail price. Speakers included Mr. J. Collins, Athy; Mr. R. Rourke, Mountrath; Mr. M. Bree, Abbeyleix; Mr. M. F. Flynn, Rathdowney; Mr. W. P. Gannon and Mr. T. O'Donovan, Maryborough.

NEWS FROM FRANCE by a Correspondent in Paris

New Penicillin Laboratory.—It is understood that a new laboratory for research into penicillin is shortly to be established in France. At the moment small supplies are being sent from the United States.

Perfumery Sales in Paris.—Despite price increases, toilet articles remain among the most reasonably priced goods available in the French capital. Prices being well within the range of Allied soldiers' purses, many of them are good customers for perfumery. A commentary is given on p. 301.

Poor-quality Soap.—Because of the very poor-quality soap at present in general use in France the Government is issuing a special variety for babies. The baby soap is smooth and harmless to the skin. Special tickets have been distributed which must be exchanged for the soap. Nevertheless, it is reported that most of it is being sold on the "black market." An inquiry is to be instituted into the whole matter.

LEGAL REPORTS

Whisky Without Licence.—At Carmarthen borough magistrates' court recently, Lewis Nightingale Jones, Swansea, representative of a Blackpool firm of manufacturing chemists, was fined £10, with £5 costs, for exposing whisky for sale by retail when not the holder of a justices' licence.

False Perfumery Figures.—At Hull, recently, John Wesley Barrable, trading as the Sterling Supply Co., was sentenced to six months' imprisonment for making false returns of perfume sales. It was stated by the prosecution that in seven months Barrable had sold £624 worth of perfume, on which he made a profit of at least £400. On each of five other charges he was sentenced to three months' imprisonment, to run concurrently.

Alterations to Ration Document.—Intimation that he would consider making an appeal "as in view of the result no one would be safe" was given by Peter N. Corrigall, M.P.S., when he was fined £8 and costs at Newcastle-on-Tyne magistrates' court recently on a charge of altering a ration document. Defendant's case was that he had amended the document, not altered it. An official of the Ministry of Food stated that the prosecution was concerned with personal points, of which defendant formerly had 291. That number was reduced by 10 per cent. to 262 by the Ministry, but defendant altered the figures back. Defendant, when asked why he had made the alteration, said he had a right to the 291, and on his behalf it was claimed in court that the Ministry had no right in law to make any reductions in points.

PARLIAMENTARY NEWS

No Increase in Soft Drinks.—The Minister of Food (Colonel Llewellyn) stated on March 14 that he could not release the necessary materials for producing a larger quantity of soft drinks.

Retail Licences.—The President of the Board of Trade (Mr. H. Dalton) stated on March 13 that 6,491 licences had been granted during 1944 to traders who had acquired the goodwill of existing businesses. Of these, 115 had been granted to multiple concerns, and ninety-four to co-operative societies. The figures include Scotland.

Gammexane Against Wireworms.—Brigadier-General Clifton Brown asked the Minister of Agriculture on March 15 whether gammexane (see *C. & D.*, March 17,

p. 277) had yet been proved effective against wireworm; and whether it would be able to farmers for this year's springings. Mr. R. S. Hudson, in reply, said he had not yet had definite evidence that insecticide was effective against worm. A supply was available.

Tax Allowances to Industry.—In the second reading of the Income Tax Bill on March 14, the Chancellor of the Exchequer (Sir John Anderson) said that the Bill was concerned with new or improved allowances for various types of expenditure on which industry would have to embark if Britain were to hold her own in the world. He knew there would be disappointment that the new allowances for buildings were to be confined, in general, to buildings used in productive industry but it was productive and creative industry in the main that provided industrial employment and was the foundation of national prosperity.

INQUESTS

Barbiturate Suicide.—A verdict that Aline Perdue took her life by Lethal poisoning, at a time when the balance of her mind was disturbed, was returned at Hammersmith, London, recently.

Strychnine Suicide.—A verdict of suicide by poisoning while his mind was disturbed was returned at an inquest at Sandown recently on Alfred James Lawton, who died from the effects of drinking a solution containing strychnine.

Tablets from Surgery.—A verdict of accidental death was recorded at London, recently, upon the two-year-old daughter of a local doctor, who died after taking digoxin tablets which her father had left on his surgery desk.

Poison Collecting as Hobby.—A verdict of suicide while the balance of his mind was disturbed was returned on William Norton, a factory accidents prevention officer at Birmingham recently; Norton died from cyanide poisoning, and was stated at an inquest to have collected poisons and drugs as a hobby.

Sleeping-tablets Overdose.—At an inquest at Denaby, Yorks, recently, a suicide verdict was returned on John Peck Morley, who was found dead two days after he had been reported missing from his home. Evidence was given that there was probably more than gr. 20 of phenobarbital in the stomach at the time of death.

TOPICAL REFLECTIONS

New Pharmacy Bill

our full account of the Pharmacy and Poisons Bill (Northern Ireland), with comments (pp. 279-83), should induce a careful study of this important document. Twenty years ago, when the Act setting up the Pharmaceutical Society of Northern Ireland was about to come into operation, you will find in two issues (June 27 and July 4) the opinions of six representative local pharmacists on its value. Those opinions were in general agreement that the Act, though not perfect in every respect, showed statesmanlike appreciation of the needs of pharmacy in that part of the United Kingdom, and was workable. In the final paragraph, sent by Mr. J. C. Culbert, the view was expressed that much would depend on the administrative ability and courage of the Council during the next few years, and that more would depend on the spirit in which the trade as a whole accepted and loyally carried out the regulations made. It may be claimed that in the course of twenty years the Act has justified itself, and that the Council of the Society discharged without fear or favour the duties entrusted to it. The Act had an influence in shaping the British Pharmacy and Poisons Act of 1933; and by a kind of reciprocal action the Pharmacy and Medicines Act of 1941 has affected the form of the present Bill. This is as it should be. One, I suppose, is likely to dispute the position that pharmaceutical legislation in these two parts of the United Kingdom should keep in step, while making due allowance for conditions peculiar to either.

Explicit Definition

In commending the discussion of this Bill to others, I may point out some advantages of explicit definition in two instances. The first is the definition of the term "shop." In the Pharmacy and Poisons Act, 1933, no term is not defined, nor is "premises." In the Pharmacy and Medicines Act, 1941, however, it is stated that "shop" has the same meaning as in the Shops Act, 1922. The framers of the present Bill have adopted the definition in Section 19 of that Act, with the additions (a) after "carried on" the words "but does not include a stall, van or barrow"; and (b) after "retail trade or business" the words "in relation to any premises." This definition, if passed through Parliament unchanged, will afford a firm basis for dealing with any outsiders who may be tempted to see how close to

the wind they can sail. The second instance is the mention of the descriptions "medical hall," "medical stores," "drug hall" and "drug stores," in addition to "pharmacy," as calculated to suggest a qualification not possessed. Here, again, the care for detail shown is likely to be of material help when the time comes for the Act to take effect. The opportunity of doing a certain amount of revision in respect of scheduled poisons, examination subjects and so forth is also being taken.

Talbor in France

The success of Sir Robert Talbor in treating agues and "feavers," in England and elsewhere, in the late seventeenth century forms part of the history of cinchona (*C. & D.*, 1930, I, 830). The collected correspondence of Mme. de Sévigné supplies an interesting sidelight on his work in France; this brilliant frequenter of the Court of Louis XIV refers to the English practitioner more than once, and in terms of hearty praise. Thus, on September 29, 1679, she writes that he has cured two patients of bronchial or pulmonary ailments with his remedy, "une certaine chose douce qui est si admirable . . . en vérité, ce remède est miraculeux." A little later came the well-known illness of the Dauphin: Mme. de Sévigné informs a correspondent that "L'Anglois" promised the King "sur sa tête" to cure Monseigneur in four days, and that the Court physicians are overwhelmed by the triumphs of "ce petit homme." (Talbor's name she gives as "Talbot.") It is evident that the distinguished author's relish of this and similar incidents is to some extent conditioned by her estimate of contemporary French doctors, whose pedantry she satirises. In a reference to four of them whom she names, she remarks: "J'aime à les consulter pour me moquer d'eux"; and on another occasion she sharpens her criticism with a mention of Molière's "Malade Imaginaire." Her principal ailment as she grew older was rheumatism: an unusual feature of the treatment prescribed was that she was directed to lay her hands in marc from the vintage twice daily. Medicaments occupy quite a small proportion of space in her subject-matter, though she was much concerned with safeguarding her health and, by advice, that of her family. Only at long intervals does the reader light on a mention of, say, the Queen of Hungary's water or "bouillon de bêteoine."

Xrayer

COMPANY NEWS

ADOS, LTD. (P.C.).—Capital £100. Manufacturing chemists, etc. Olive M. Eatly, Charles V. Burgess, and Alfred H. Evans, directors. Solicitors: R. S. Jackson & Bowles, London, E.C.3.

MALLARD & SPENCE, LTD. (P.C.).—Capital £1,000. Ophthalmic, dispensing and manufacturing opticians, etc. George F. Mallard and Bertram Spence, directors. R.O.: 31A Walm Lane, London, N.W.2.

INDO-BRITISH INDUSTRIES, LTD. (P.C.).—Capital £100. Manufacturers of and dealers in chemicals, drugs, disinfectants, etc. Cyril D. Fernando and Owen K. de Silva, directors. R.O.: 30 Sussex Place, Hyde Park, London, W.2.

J. S. MINIKIN, LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in pharmaceutical products, toilet goods, etc. George Garbutt, M.P.S., and Henrietta B. Garbutt, directors. R.O.: 23 East View, Boldon Colliery, co. Durham.

SALMON & SON (CHEMISTS), LTD.—Capital £500. To acquire the business of a chemist and druggist carried on at 114 Western Road, Hove. Ernest F. Salmon, M.P.S., and Florence H. French, directors. R.O.: As above.

S.O.S. TUBE SPECIALISTS, LTD. (P.C.).—Capital £1,000. Surgical, optical and scientific tube manufacturers, etc. John A. Burns and Herbert E. Nye, directors. Solicitors: J. N. Mason & Co., 41-44 Temple Chambers, London, E.C.4.

NORTHUMBERLAND LABORATORIES, LTD. (P.C.).—Capital £1,000. Manufacturing chemists, manufacturers of and dealers in medicated wines, drugs, etc. Robert W. Black, M.P.S., director. R.O.: 12 Northumberland Court, Newcastle-on-Tyne.

D. I. BARON, LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist and druggist lately carried on at 570 Moseley Road, Birmingham, 12, by Dorothy I. Baron. W. S. Baron, M.P.S., and Dorothy I. Baron, directors. R.O.: As above.

SURREY LABORATORIES, LTD. (P.C.).—Capital £1,000. Manufacturers of and dealers in tablets, pills, lozenges, chemicals, toilet requisites, etc. Horace S. Eastoe and John Wheatley, directors. R.O.: 6 Virginia Road, Thornton Heath, Surrey.

HARCOMBE COOPER (SALES), LTD. (P.C.).—Capital £100. Manufacturing, pharmaceutical, photographic and dispensing chemists, etc. Cecil F. H. Cooper and Thomas Phelps, M.P.S., directors. R.O.: 59 Barndon Chambers, Infirmary Street, Leeds, 1.

MEDICAL HALL (EDENDERRY), (P.C.).—Registered in Dublin. Capital £500. Pharmaceutical chemists, druggists, etc. Mrs. Brigid M. Murphy and Miss F. Kinsella, Coolgreeney, Edenderry, and Austin Kinsella, directors.

HARDIE PROPRIETARY AGENCIES, LTD. (P.C.).—Capital £2,000. Manufacturers and dealers in chemicals, toilet and proprietary articles, etc. Mrs. B. M. M. Hardie and Ernest Mess, directors. R.O.: 11 Albert Square, Chester, 2.

A. W. SHOWELL (SURGICRAFT), LTD. (P.C.).—Capital £1,000. Manufacturers and dealers in surgical and veterinary needles, components, etc. Arthur Showell, Miss Mabel G. Jones, and John Wakefield, directors. R.O.: 109 Corporation Row, Birmingham.

EWART & GODFREY, LTD. (P.C.).—Capital £500. Manufacturers of and dealers in chemicals, drugs, oils, toilet requisites, etc. W. A. Whitehead and H. N. Popple, M.P.S., directors. R.O.: Martins Chambers, 123-25 Clayton Street, Newcastle-on-Tyne.

VETERINARY PRODUCTS, LTD. (P.C.).—Capital £1,000. Manufacturers and dealers in veterinary foods and preparations, chemicals, etc. Charles W. Stevenson and Mary E. Wise, directors. R.O.: Selwyn House, 3 Lansdowne Terrace, London, W.C.1.

I. G. THOMAS (CHEMISTS), LTD. (P.C.).—Capital £1,000. To acquire the business of a chemist and druggist carried on at 52 Ilford Ilford. Mrs. Phillipina Thomas and P. Tharman, directors. R.O.: 19A Colmore Street, London, E.C.2.

BORAX CONSOLIDATED, LTD.—Final dividend on preference stock is 3 per cent. making 6 per cent. for the year, and on deferred, $7\frac{1}{2}$ per cent. (both same as last year).

Voluntary Winding-up.—By a special resolution passed at an extraordinary general meeting of members of the Institute of Applied Pharmaceutics, Ltd., recently it was resolved to wind up the company voluntarily. Mr. James John Finlayson, 13 Basinghall Street, London, E.C.2, chartered accountant, was appointed liquidator.

TRADE NOTES

Exports Index.—Lloyds Bank, Ltd., draw attention to a service the Bank provides, through associated agents and correspondents overseas, to exporters in their country.

Infants' and Invalids' Food.—Attention is drawn to the merits of Forbes' malted barley elm food for invalids and infants makers, Brook, Parker & Co., Ltd., Bradford.

acute Shortage of Containers.—A. L. Kin & Co., Ltd., Sheffield, make a strong appeal for the return of tins and damaged outers. An offer is made to refund postage on returned empties.

Counter Line.—Thompson & Capper, Wholesale, Ltd., Liverpool, 9, claim that marks, introduced sixteen years ago, taken a leading place among moth repellents.

Two Sizes Only.—May & Baker, Ltd., state that they are issuing ammonium chloride tablets in containers of 25 and 500 gm. tablets only, and not also in containers of 100 tablets as previously stated.

Telephone Correction.—The telephone number of A. Horner & Sons, 47-49 The High, London, E.1, is Royal 3526, and not given in the C. & D. Diary and Year Book, 1945.

Bird-lime.—Dak bird-lime, for catching birds, is now available in tins of about 1 oz. from Kay Brothers, Ltd., Kayborough Works, Reddish, Stockport. This is the largest size permitted by current packing regulations.

Return of Bottles.—The Soft Drinks Industry (War-time) Association, Ltd., calls upon all dealers in soft drinks that P.I. bottles should be returned to the makers without delay if output of soft drinks is to be maintained.

Bronchial Tablets.—Glass tubes of twenty Aspax brand bronchial tablets, in counter containers of 3 doz., are available from Aspax Chemical Manufacturers, Ltd., 32 Shaftesbury Avenue, London, W.1. Terms are given elsewhere in this issue.

Price Reduction.—Increase in demand has enabled Fubex, Ltd., Hardshaw Street, Helens, Lancs, to announce a reduction in trade prices of Flyol, to take effect immediately. A reduction in retail prices will come into operation on August 1.

Fruit-preserving Season at Hand.—In good time for the commencement of the

fruit-bottling season, Gardenland Products, Sevenoaks, Kent, are drawing attention to their Three-point pack for facilitating fruit-preserving by a cold liquid method.—Porosan, Ltd., 65-66 Chancery Lane, London, W.C.2, draw attention to their Porosan fruit caps and skin rings, which are being distributed to the trade by S. Maw, Son & Sons, Ltd., Aldersgate House, New Barnet, Herts. Terms are given in an announcement in this issue.

Reason for Shortage.—Delays in deliveries are the subject of an explanation and apology put forward by the British Felsol Co., Ltd., Wigton House, 206 St. John Street, Clerkenwell, London, E.C.1. It has been found necessary to confine the supply of the large size of Felsol to requirements for physicians' private prescriptions, hospital, and National Health Insurance dispensing purposes. One size remains available for ordinary sources, but this, too, is in short supply. Every effort is being made to ensure fair distribution by executing orders in strict rotation.

Easter Holiday Closing.—The offices and warehouse of Bayer Products, Ltd., Africa House, Kingsway, London, W.C.2, will be closed from 5 p.m. on March 29 until 8.30 a.m. on April 3. Urgent needs may be obtained from Martindale (Wholesale), Ltd., 50-52 Wigmore Street, London, W.1.—The offices and warehouse of British Schering, Ltd., 185 High Holborn, London, W.C.1, will be closed from Thursday evening, March 29, until Tuesday morning, April 3. Urgent requirements may be obtained from John Bell & Croyden, 50 Wigmore Street, London, W.1.—The offices and warehouse of C. J. Hewlett & Son, Ltd., 35 Charlotte Road, London, E.C.2, will be closed from March 30 to April 2 inclusive.—The premises of H. R. Napp, Ltd., will be closed for the Easter holidays from 4.30 p.m. on March 29 to 8.30 a.m. on April 3. Urgent orders will be dealt with by John Bell & Croyden, 50 Wigmore Street, London, W.1., or R. Woolby Brooke, 38 Gloucester Road, S.W.7.—Wilcox, Jozeau & Co., Ltd., 74 White Lion Street, London, N.1, are closing from Thursday evening, March 29, until Tuesday morning, April 3.

Business Change

RODMILL CHEMICAL CO., LTD., have removed to 49 St. Anne Street, Liverpool, 3 (Telephone: North 0938).

BIRTH

MORGAN.—At the Nightingale Nursing Home, Twickenham, on March 11, the wife of Alwyn Thomas Morgan, M.P.S., Ranmore, Strawberry Hill Road, Teddington, Middlesex, of a daughter.

DEATHS

BOYES.—On March 16, after a brief illness, Mr. William Jerome Boyes, M.P.S., 61 Balham Hill, London, S.W.12, aged eighty. Mr. Boyes qualified in 1888, and was a founder-member of the South-west London Chemists' Association, for which he acted for some years as treasurer. His son, Dr. G. R. Boyes, B.Sc., Ph.C., F.R.I.C., L.S.A., is a joint secretary of the British Pharmaceutical Conference and was Pereira medalist in 1919.

ECROYD.—On March 7, Mr. Walter Ecroyd, Ph.C., 132 Daubney Street, Cleethorpes, Lincs, aged seventy-eight.

GLOVER.—Recently, Mrs. Heppy Glover, the wife of Councillor Edward Dean Glover, M.P.S., 40 Tong Road, New Wortley, Leeds, 12. The funeral took place at St. John's Church, Dewsbury Moor.

NUTTALL.—At 83 Clarendon Road, Southsea, on March 12, Mr. William Harold Nuttall, M.P.S., F.S.M.C., F.I.O., F.N.A.O. Mr. Nuttall qualified as a pharmacist in 1911, and was for many years in business in Manchester, retiring to Southsea owing to ill-health. During the past three years he has been manager for Bell's, Ltd., Strand, Southsea. Mr. Nuttall is survived by his widow.

RICHTER.—At Budapest, on March 6, Mr. Gedeon Richter, aged seventy-two. Mr. Richter was the founder of the Richter Chemical Works, Budapest, forty-five years ago, and was, until the outbreak of war, chairman of Gedeon Richter (Great Britain), Ltd. He was a pioneer in hormone research, especially in devising means of production on a commercial scale. He was also an inventor and the holder of a number of patents owned by his company. Mr. Richter made several trips to England, the most recent being in 1939; he was much esteemed by all who knew him for his sincerity, modesty and kindness. He is survived by his widow and a son (Dr. L. Richter).

SCOTT.—On March 7, Mr. Ernest Scott, M.P.S., 94 Eardley Road, Streatham, London, S.W.16, aged fifty-two.

SINGLETON.—Recently, Mr. Robe gleton, chemist and druggist, Bi Blackpool, aged sixty. Mr. Singleton for Boots, Ltd., for fifteen years before lishing his own business in Cleveleys he held for a similar period before in 1936. He is survived by his wi daughter (Mrs. Grahame Brown, M. manager for Taylors, Ltd.), and (Sergeant Ralph Singleton, R.A.M.C.

STEARNS.—Recently, Mr. Leonard M.P.S., 345 Norwich Road, Ipswic Stearn was for many years in busi Haverhill, Suffolk, retiring some yea He qualified in 1897.

WILKINS.—At Epsom, Surrey, suc on March 12, Mr. Ralph Robert W Cecil, Chigwell, Essex, aged sixt Mr. Wilkins was director of s (special) at the Ministry of Supply, former director of Victor Blagden Ltd., chemical manufacturers, Lond

YOUNG.—At West Hartlepool, on 17, Mr. Thomas E. B. Young, N 6 Upper Church Street, aged fifty-six. Young served his apprenticeship wi Charles Rankin, Sunderland, and experience in London and Bristol opening his own business in West H pool. During the war of 1914-18 he in the Royal Army Medical Corps.

PERSONALITIES

MR. E. R. WALKER, a director of Pure Drug Co., Ltd., has been elected president of the Radcliffe-on-Trent Club.

MR. J. J. KERR (registrar, Pharmaceutical Society of Ireland) has made a recovery following his recent oper and hopes to be able to resume his duties early in April.

MR. ANDREW K. McCOSH has been e president of the British Employers' federation. Sir Allan C. Macdiarmid Messrs. G. S. Maginness and Thomas worth have been elected vice-presiden

MR. J. N. ALDINGTON, B.Sc., F.F has been awarded the degree of (external) by the University of Lond a thesis on "High Current Density Me Vapour Arc." Dr. Aldington is he laboratoires of Siemens Electric L & Supplies, Ltd., Preston.

MR. L. PIPER, M.P.S., 47 St. Nic Street, Ipswich, has been appointe serve on the East Suffolk Insurance mittee. He is chairman of the Ipswich

Branch of the Pharmaceutical Society, secretary of the Ipswich Pharmaceutical Committee, Ipswich District Pharmaceutical War Committee and the Ipswich Branch of the National Pharmaceutical Society. He is also a member of the Ipswich Y Club.

AUBREY D. SMITH, 15 St. Leonards Heaton Chapel, Stockport, retired February 28 from the service of Johnson & Johnson (Great Britain), Ltd., Slough, Beds. For the past forty years he has represented the company in Lancashire and Cheshire, and during that time has made many good and staunch friends, to whom, through the columns of the *C. & D.*, bids farewell, and wishes good fortune and health in the years ahead.

WILLS

R. GEORGE EDWARD START, M.P.S., 56 Bon Edge Road, Buxton, left £5,031, net personality £1,634.

R. JOSEPH MANGION, M.P.S., 90 Cummond Street, Hull, left £568 gross, with net personality £167.

R. FRANK WILLIAM HARRIS, chemist and druggist, 19 Birch Tree Way, Croydon, Surrey, left £5,559, with net personality £90.

R. FURLOW ROSS SERGEANT, 3 Carisbrooke Drive, Mapperley Park, Nottingham, retired pharmacist, left £6,933, with net personality £5,615.

R. WILLIAM KELLY BOURKE, Ph.C., na Tire, Roscrea, Tipperary, and Castle Street, Roscrea, left personal estate England and Eire valued at £12,163.

R. JOHN HENRY THORPE, O.B.E., K.C., Little Heath House, Limpsfield, Surrey (airman, Central Price Regulation Committee from 1942), left £9,229, with net personality £8,863.

MRS. RUBY CONSTANCE SARSON, 5 Palace Avenue, Paignton, Devon (a director of Sons & Son, Ltd., Paignton), wife of Robert Sarson, M.P.S., left £939, with net personality £909.

MR. CHARLES CLIFFORD DAWSON, 12 Bradfield Road, Savile Town, Dewsbury, Works, formerly for twenty-seven years with J. Brown & Co., Ltd., chemical manufacturers, Savile Town, left £3,969, with net personality £3,807.

One Big Heave.—Help to finish the job making a special salvage effort. Waste paper and cardboard are wanted in thousands of tons.

COMING EVENTS

Tuesday, March 27

JUNIOR BRANCH, MANCHESTER PHARMACEUTICAL ASSOCIATION, Onward Hall, 207 Deansgate, Manchester, at 7.45 p.m. Messrs. W. E. Phillipson, J. Tomlinson, and S. Boulton, introducing a discussion on "Should Apprenticeship be Modified?"

WEST HAM AND EASTERN DISTRICT ASSOCIATION OF PHARMACISTS and **BRANCH**, Church Institute, 27 Romford Road, Stratford, London, E.15, at 7.30 p.m. Mr. C. H. Sykes, Ph.C. (chief pharmacist, London Hospital), on "Modern Antiseptics, with Special Reference to Penicillin."

Wednesday, March 28

NEWCASTLE DISTRICT AND NORTHUMBERLAND BRANCH, PHARMACEUTICAL SOCIETY, Connaught Hall (next to Y.M.C.A.), Blackett Street, Newcastle-on-Tyne, at 3 p.m. Mr. H. N. Linstead, O.B.E., M.P. (registrar, Pharmaceutical Society), on "The Pharmacist's Position in the New Health Service." Durham and Sunderland members invited to attend.

TEES-SIDE BRANCH, PHARMACEUTICAL SOCIETY, Cleveland Technical and Scientific Institute, Corporation Road, Middlesbrough, at 7.15 p.m. Address by Mr. H. N. Linstead, O.B.E., M.P.

WESTERN (LONDON) PHARMACISTS' ASSOCIATION, 17 Bloomsbury Square, London, W.C.1, at 7.30 p.m. Messrs. T. D. Whittet, Ph.C., on "Nomenclature of B.P. and Other Drugs"; Eric Neal (West Kent Branch of the Pharmaceutical Society) on "Pharmaceutical Reorganisation"; and J. H. Evans on "Post-war Retail Opportunities."

BATH BRANCH, PHARMACEUTICAL SOCIETY, Queen's Restaurant Annexe, Wood Street, Bath, at 7.45 p.m. "Brains Trust." Question master: Mr. A. O. Keefe, M.P.S. Members of Trust: Messrs. A. O. Barton, M.P.S., J. T. Bonthron, M.P.S., H. Lucas, Ph.C., J. R. Goldthorpe, M.P.S. (Publisher, THE CHEMIST AND DRUGGIST), and W. D. White, M.P.S., F.S.M.C.

Friday, March 30

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble to Macclesfield, Dane Valley and Winchle. Meet London Road Station, 9.20 a.m.

Saturday, March 31

ASSOCIATION FOR SCIENTIFIC PHOTOGRAPHY, Caxton Hall, Westminster, London, S.W.1, at 2.30 p.m. "High-speed Cinematography."

Sunday, April 1

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble to Chapel, Goyte, and Buxton. Meet London Road Station, 9.20 a.m. Book Chapel South return.

IMMUNITY

by H. Price, Ph.C., F.C.S.

THE idea that the animal body can develop the power to resist microbic infection is not new. It existed even before the indefinite conception of a *contagium vivum* itself was accepted. The authors of Ancient Greece knew, and recorded the fact, that for some epidemic diseases an attack successfully survived gave immunity to the person against further infection. Specific ideas could not emerge until after the germ theory of disease was propounded; attempts at immunisation were based upon this early knowledge and eventually they gave rise to the work of Louis Pasteur in this field.

Early Empirical Immunisations

The first empirical attempts to induce immunity were directed against smallpox. This dread disease had decimated China from time to time, and the immunity method adopted demanded the stoical fatalism characteristic of that race. Based upon the idea that infection entered via the respiratory tract, the attempt was made to induce a mild attack, by introducing into the nostrils dried vesicular matter derived from a smallpox sufferer. Often success crowned the attempt, and the patient had a modified attack, recovered, and was thereafter immune. Not infrequently, however, the disease developed in all its virulence, bringing ultimate disfigurement or death. In Turkey, a somewhat different method was adopted. The same vesicular matter was introduced into scarifications on the arm, and in the majority of cases mild, non-fatal smallpox developed. In a small percentage of cases, however, the virus displayed all its normal virulence, with the usual consequences. The method came to the notice of the unconventional Lady Mary Stuart-Wortley-Montague, wife of the Ambassador to the Most Sublime Porte, who introduced it to England. Inoculation, as it came to be called, was popularised after George the Second's Queen had had two of the infant Princes immunised by it.

Vaccination

In 1796, a new and far less dangerous method was evolved. Edward Jenner, a physician of Sudbury, Gloucester, capitalised a local belief that milkmaids who had been infected with cowpox were immune to smallpox. His first experiment was to transfer material from cowpox sores on the

hand of a milkmaid to scarifications on the arm of an eight-year-old boy. Later the boy was inoculated with smallpox material and did not develop the disease. Slowly the method became widely adopted, and has survived to this day. Smallpox virus is modified by passage through the animal body, and such a culture is applied to scarifications on the shaved and sterilised abdomen of a calf. After being kept under aseptic conditions until vesicles have developed, these are removed, the material clarified and adjusted to contain 50 per cent of glycerin as a partial steriliser, a stored in a refrigerator until the bacteriological content is low. After being tested to ensure identity, purity, and freedom from dangerous bacteria, the material is filled into capillary tubes in doses of one millilitre to form the *vaccinum vacciniae* of the British Pharmacopoeia, commonly called vaccine lymph or calf lymph.

The Work of Pasteur

The next forward step in the story of immunisation was taken by Pasteur, who had already postulated a microbic cause for such diseases as osteomyelitis, puerperal septicæmia and furunculosis. Pasteur's attention became centred on fowl cholera (*cholera des poules*), and he discovered that the virulence of the causative organism which had been isolated and cultured, was not a constant quantity. Using an old culture in an attempt to infect a series of test birds, he found that they only experienced a mild attack and recovered. Later, when a second attempt to infect them was made, they resisted infection. To such a culture, which by ageing had lost its virulence, but which retained its antigenic power, the term "attenuated" was applied. When such cultures were used for inoculating fowls, the disease was brought under control. The doctrine of attenuation and inoculation was most spectacularly demonstrated by Pasteur's work on anthrax. He began his studies on this disease at the invitation of the Agricultural Society of Melun, whose members had suffered serious financial loss through the ravages of anthrax amongst their herd. That *B. anthracis* was the causative organism had been proved by the German bacteriologist, Koch. Pasteur, with his assistants Chamberland and Roux, showed that the meadows of Melun were heavily infected with anthrax spores, which were brought

the surface by worms from areas in which cattle which had died from anthrax were buried. . . . Investigation showed that, if the bacillus were cultured at 43° C., it became attenuated and formed no spores, and exhibited none of its former virulence. A large number of animals—sheep, cows and goats—were inoculated with the culture. Later they were injected with a highly virulent culture of the same organism. All came through the ordeal. Great publicity was given to the experiment by the correspondent of the London "Times" with the result that Pasteur's methods became widely applied. At an International Medical Congress held in London in the same year (1881) the great French scientist announced that he proposed to use the words vaccine and vaccination, in deference "au mérite aux immenses services rendus par un plus grands hommes de l'Angleterre, que Jenner." A similar triumphant quest crowned Pasteur's investigation of swine erysipelas. In conjunction with Vuillier, he isolated the causative organism and attenuated, this time, not by ageing, but by passage through rabbits. A vaccine prepared from the recovered bacteria was found to confer immunity upon inoculated animals.

Immunisation Against Rabies.

Rabies was the next problem—a more difficult one than those previously dealt with by Pasteur, for the causative organism is a virus, beyond the visual limits of the microscope, and resistant to attempts to culture it. Pasteur found that certain dogs which had survived rabies could not be infected again. Using material derived from the saliva and from the nervous system of rabid dogs, he attempted to attenuate it by passing it through rabbits. This had the converse effect of enhancing its virulence, and so he turned again to ageing. The spinal cords of rabbits dead of the disease were dissected, and dried under sterile conditions, when it was found that the organism became progressively attenuated. The ground-up cords were used to immunise dogs against rabies. The disease has a long incubation period, up to as long as eight months, and this prompted Pasteur to a new application of the material. Since he could confer immunity in a fortnight, he attempted to immunise dogs which had already become infected, and was successful in his experiment. He was driven to the attempt to immunise human beings who had been

bitten by rabid animals by the appearance of a nine-year-old boy who had been lacerated by a rabid dog. The attempt was successful and immunisation later repeated on another boy. Rabies was by no means prevalent in France, but the work nevertheless created a sensation. As a result of Press prominence given to it, and in honour of his previous researches, the Pasteur Institute was erected in 1888, so that Pasteur might carry on his work with every facility.

Suspended Killed Organisms

So far, only living organisms, mostly attenuated, had been used in immunisation experiments. Two American bacteriologists, Salmon and Smith, found that they were able to secure immunisation with suspensions of organisms killed by heat. Hog cholera was their subject, but from their first modest experiments, the science of immunisation developed rapidly. Haffkine prepared a vaccine for the prophylaxis of cholera, and later still Professor (Sir) Almroth Wright developed the T.A.B. vaccine, conferring immunity against the *B. typhosus* and *paratyphosus A.* and *B.* This vaccine finds a place in the current Pharmacopoeia. Travellers to the East are familiar with the joint cholera-typhoid vaccine, T.A.B.C., and it is to Sir Almroth Wright, working in the inoculation department of St. Mary's Hospital, London, that the therapeutic use of vaccines is largely to be attributed. Hopes ran high. With success in two fields, using a vaccine as now understood—a sterilised, standardised suspension of bacteria—the conquest of disease seemed to be in sight. But it was not to be. Many vaccines were prepared and tried without success, and years of patient research were necessary to find the reasons underlying lack of antigenic power. In some instances the problem still awaits solution. With one bacillus—that of whooping cough, *B. pertussis*—it was found that three factors were necessary to produce a culture that would yield an active vaccine: the organism should be grown on a medium containing human blood; it should be a smooth strain and should be the first phase of its growth.

Attack on Common Cold

The obscure aetiology of some infections, such as the common cold, made it difficult to apply immunisation to them. A sufferer from the common cold yields a variety of organisms, such as the *B. influenzae*

(*Pfeiffer*), *M. catarrhalis*, *B. septus*, and possibly also the *Pneumococcus*; these may also be recovered from cases of true influenza, an entirely different condition. Vaccines prepared from an appropriate mixture of the organisms have been widely tried against both conditions, with varying success. Leishman ("Lancet," 1920) reported good results in the use of a mixed vaccine against influenza amongst the troops. Recent work by Shope, however, seems to show that the primary infective organism is a virus, the bacterial infection supervening. The virus has been isolated and cultivated, and a vaccine made from it is used, in conjunction with a mixed bacterial vaccine, in the prophylaxis of influenza. Its efficiency cannot be effectively demonstrated until an epidemic of true influenza recurs. A vaccine, bacterial or virus, appears to have more than one effect upon the body. Primarily it produces a specific immunising response, but at the same time it makes the blood bactericidal to a whole range of microbes. The modern dosage of vaccines calls for comment. Pasteur, with his vaccines of attenuated organisms, gave daily or even twice-daily injections. Modern immunotherapy prefers two or three injections at intervals of from ten days to three weeks. The initial dose sensitises the patient, but produces little immunological response, the later dose bringing about a large antibody response with consequent long-term immunity.

Passive Immunity

An entirely different line of research was pursued simultaneously on the Continent, where Roux and Yersin, working in the Institute Pasteur, had already shown that the diphtheria bacillus secreted a poison or toxin into the medium upon which it was grown. If the broth was filtered free from organisms, and injected into test animals, it induced many of the symptoms of diphtheria. Von Behring, in 1890, showed that an animal which had been injected with the toxin and survived developed an immunity to further doses, and that the blood serum of such an animal would protect a second animal from the effects of the toxin. The immunity so conferred was termed "passive" immunity, because of its relative transience when compared with the "active" immunity conferred by certain vaccines. The name antitoxin was given to such a serum, separated from blood cells by clotting and filtration, and the first (diphtheria antitoxin) was used clinically by Geissler in 1891. Such passive

immunity was useful for the temporary protection of persons who had been in contact with infectious disease, and whom a vaccine could not be used to induce permanent immunity on account of the negative phase that had produced.

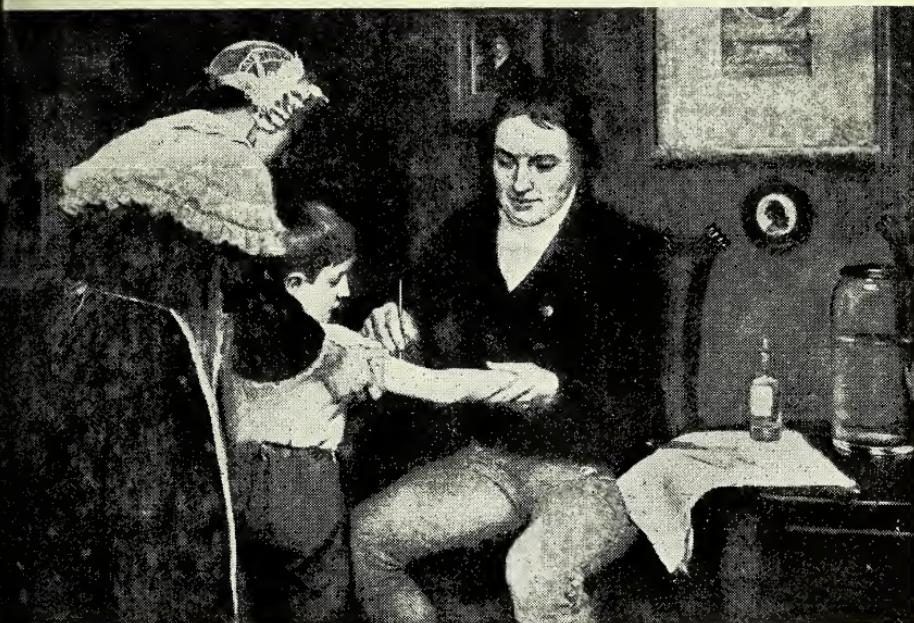
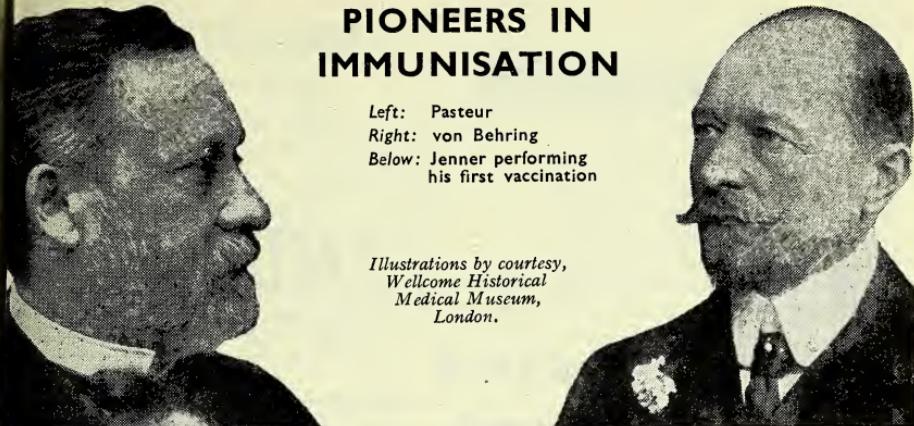
The early sera were crude dilute extracts, but research has shown that in many of them the antitoxic power lies in the globulin fraction of the blood. It is precipitated, purified, and suspended in normal saline to form the highly concentrated modern product, invaluable in treatment of infection when the patient's resistance is low or the infection厉害. For a time, attention was focused almost exclusively on toxins, but it was realised that not all organisms secrete their toxin into the cultivation medium. A distinction was therefore drawn between exotoxins (extracellular "true" toxins) and endotoxins (endocellular). Within recent years it has been shown that some organisms thought of as producing endotoxins can, by culturing, be induced to produce exotoxin. Meanwhile, attempts were made to produce sera by injecting vaccines into animals. These were found to have, in general, little antitoxic power, but they were able to promote the lysis of the infecting organism and have therefore found a place in the medical armamentarium. In 1894 Dr. George and Dr. Gladys Dick were able to cause the *Streptococcus haemolyticus scarlatinæ* to produce a toxin and ultimately to develop a true antitoxin. Since the causative organisms of gas-gangrene, meningitis, and gonorrhœa have yielded toxins.

The method of production of an antitoxin can be generalised. The first step is the production of a toxin and standardisation on a test animal, usually a guinea-pig, in others the amount which produces a definite area of localised erythema in human beings. This toxin is injected in gradually increasing doses into a horse, previously immunised against tetanus, until the animal is receiving several hundred times the lethal dose. When no further antitoxic response, as shown by tests observed, the horse is bled under sterile aseptic conditions. The blood is permitted to clot, and the serum removed. From the serum, albumin and the euglobulins are removed, and the globulin fraction recovered.

PIONEERS IN IMMUNISATION

Left: Pasteur
 Right: von Behring
 Below: Jenner performing his first vaccination

*Illustrations by courtesy,
 Wellcome Historical
 Medical Museum,
 London.*



Since toxins themselves can induce immunity in animals, their use was engaged in human beings as early as 1904, when Theobald Smith suggested using diphtheria toxin as a prophylactic agent. This was so used extensively by Park in New York. Ramon, in 1924, showed that the toxic fraction could be destroyed by the action of formaldehyde, leaving the antigenic power unimpaired, the product being termed diphtheria toxoid. A previous method of detoxication had been almost to neutralise the toxin with antitoxin, forming diphtheria prophylactic. A number of such

toxoids are now in use (staphylococcus and tetanus toxoids, etc.) The last-named has been used extensively in the Forces, and has eradicated tetanus among wounded soldiers. More recently still, it has been possible to precipitate the toxoid as an insoluble alum salt which, when washed free of proteins and suspended in normal saline, forms diphtheria toxoid alum-precipitated, now the standard prophylactic. The extended use of this material bids fair to place British diphtheria statistics on the same satisfactory level as those obtaining in Canada and the United States.

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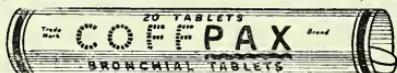
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CXLIII MARCH 24, 1945 NO. 3398

The fact that goods made of raw materials in short supply owing to war conditions are advertised in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

The Work of Daniel Hanbury

March 24, 1875, Daniel Hanbury died away at the age of forty-nine. Had he been granted another few years of life, we may not doubt that he would have further enriched the sum of knowledge in his chosen subjects. Even with this limitation, the number of investigations carried out by him during his brief maturity is astonishing. The present anniversary is not a fitting occasion for a detailed biography; but it must be remembered that until about five years before his death the work of a leading London pharmacy made imperatively demands on his time, demands which so conscientious a pharmacist could never delegate to a partner or an assistant. In addition, he was president of the British Pharmaceutical Conference for two years (1868-69), and an examiner to the Pharmaceutical Society of Great Britain for twelve years (1860-72) a period that, in his opinion, was seven years too long. Leaving school comparatively early, his attainments in science and in several languages were mainly due to his tireless industry. In our issue of April 15, 1945, we reproduced in facsimile a brief note in his remarkably clear handwriting:

the volume of his correspondence on scientific subjects must have been formidable.

When his name is mentioned, "Pharmacographia"—and especially the first edition (1874), which contains a greater proportion of his work than the second—comes readily to mind. That scholarly book is by no means obsolete today. But it represents only part of his contribution to nineteenth-century science. A year or so after his death a collection of his monographs, together with his Conference presidential addresses, the articles on prices written for THE CHEMIST AND DRUGGIST Almanack of 1870; and a few other items, was published under the supervision of Mr. Joseph Ince. Hanbury also contributed to the proceedings of the Linnean Society (of which he became treasurer), to "Notes and Queries," and to "The Athenaeum." In lighter vein he read a paper at the Conference of 1864 on a holiday in France, incorporating a few botanical and chemical notes. The care expended on every subject he took in hand may be instanced by his studies in the history of Chinese *materia medica*, which occupied over three years. Though he never visited China, he travelled extensively in Europe and the Near East in search of first-hand information on medicinal plants, and projected a tour in India for the same purpose. After declining for some years to allow himself to be proposed for election to the Royal Society, he at last yielded to the wish of friends, and became a Fellow of the Society in 1873; but it is typical that, with one exception, he never knew who signed his certificate. His was the true scientific mind, regardless of fame and caring only for the advancement of knowledge.

Perfumery Situation in France

WHEN the Germans overran France in 1940, they tried to acquire all the essential oils they could find. It would be untrue to say that they carried out this policy with a show of brutality. On the contrary, they came as business men, ready to make purchases. Nevertheless, their purchases were a factor in creating scarcity. Already, in 1939, the Government had allowed a price increase of 30 per cent. in perfumery, and a further increase of 50 per cent. was sanc-

tioned in 1943. Conditions in the capital today are such, however, that, despite these increases, toilet articles remain among the most reasonably-priced goods obtainable. For this reason, allied soldiers, as were the occupying German troops before them, are being attracted to spend money on perfumery and cosmetics—items which they find well within reach of their purses.

Obstacles to Recovery

Yet the industry is confronted with difficulties which will not be easily overcome. In the first place, all commerce from outside France has been virtually at a standstill since 1942. This has meant that no overseas essential oils have been imported, and consequently composite perfumes have been almost unobtainable. By contrast, single-flower perfumes are in much better supply, for, despite the turnover of much land to essential food purposes, Grasse continues to produce perfume flowers. Happily, there is ample evidence that the French Government is thoroughly aware of the importance of the perfumery industry to the economy of the country, and is doing all it can to help. Owing to the present lack of many essential raw materials, however, little can be done in the immediate future. There are virtually no bottles, string or paper, while transport itself is not available. Necessarily there has been a decline in trade, and there are distinct shortages of commodities for which, paradoxically enough, there is a tremendous demand from the troops. Among other handicaps, the French cosmetic industry is suffering from a severe lack of fats, as the Government has forbidden the use of all alimentary fats in cosmetics production. On the other hand, the "black market" in France is large, and there are few commodities which cannot be bought there—at a price. When the fat shortage became acute, many small firms sprang up, taking advantage of particular connexions to produce toilet creams and other cosmetics. Some of these small manufacturers made use of synthetic materials and "ersatz" fats, but a great many managed to buy the real thing and re-sell it at more than the controlled price.

The Germans, during their occupation, took full advantage of the situation. They

were never averse to buying on the "black market," and placed large orders at high prices for creams to be used by their troops on the Russian front. Manufacturers of such creams for the Germans were not to be found among members of the trade associations, but were, in fact, obscure and opportunist manufacturers whose businesses have since virtually disappeared. Finally, air attacks have accounted for a high degree of material destruction.

À Nos Amis Français

C'EST pour nous une bonne nouvelle et nous sommes sûrs que c'est également une bonne nouvelle pour nos maints amis d'affaires en France, que celle des dispositions qu'ont faites le Gouvernement Provisoire de France et les Postes et Télégraphes Britanniques pour permettre l'envoi et la livraison réguliers dans toute la France des journaux et des périodiques britanniques. Ainsi donc, après un intervalle qui a duré depuis le mois de juin 1944, THE CHEMIST AND DRUGGIST sera enfin accessible à tous nos anciens amis français, qui recevront, en outre, le supplément d'Exportation de THE CHEMIST AND DRUGGIST, publié tous les mois.

Nous offrons nos plus cordiales salutations à tous ceux qui font partie des industries pharmaceutique, chimique, parfumerie et de cosmétiques. La France et l'Angleterre étaient des alliés de la date et des amis à toute épreuve bien avant que l'Allemagne eût ravagé l'Europe. Pendant les plus sombres jours de la guerre nos liens d'amitié et de confiance mutuelle ne se sont jamais affaiblis. Maintenant que la libération de l'Europe et la défaite totale des Nazis sur leur propre territoire sont toutes proches, nous envisageons pour nos deux peuples la paix et la prospérité pendant bien des années.

Quant à nous, en qualité de la représentative des industries chimiques et pharmaceutique et des commerces à nous ferons de notre mieux pour relevier et assurer les rapports personnels et nationaux franco-britanniques, pour améliorer les relations d'affaires et le commerce réciproque entre nos deux pays.

VIVE LA FRANCE!

PRESIDENT QUESTIONED ON N.H.S.

LONGED discussion followed an address by the president of the Pharmaceutical Society (Mr. F. G. Wells) on "The Rôle of Pharmacist in War-time" to a meeting of the Torquay Branch recently.

MR. G. A. CLARKE wanted to know if the National Health Service schemes would ever become actualities, and if so, when. He doubted whether there would be any dispensing to do. Most of the younger doctors, he declared, had no idea how to write a prescription.

THE PRESIDENT said he really did not know whether the proposed changes would ever come about. He was of opinion that the National War Formulary was largely responsible for the decline in prescribing. Many practitioners thought they could prescribe only preparations from the formulary.

Types of Liaison With Doctors

MR. CLARKE then asked if there had been active liaison between the medical profession and the Council, and was informed that up to the present nothing had been done in this direction, but that it was hoped to arrange something in the near future.

Mrs. M. E. LUNT inquired if the Council was definitely against the employment of pharmacists in health centres.—THE PRESIDENT: No, but we shall require the centre to prove there is enough demand to warrant it.

Mr. W. E. HOLLOWs said the scheme could depend on there being enough money to pay for it, and THE PRESIDENT agreed that it would cost considerably more than present estimates.

Mr. H. HOLMES considered that the Society should present a stronger case to the Government, and deplored the tendency amongst officials to decry the rank and file of pharmacy. He considered that, as the Central Pharmacy Board would be in control of pharmacists, it should consist entirely of pharmacists. He thought a lot of the troubles in pharmacy were due to young pharmacists being turned out into the world without being educated in the correct way to run a pharmacy. THE PRESIDENT replied that, as the Central Pharmacy Board would have the handling of considerable public funds, he felt sure the Government would insist upon representation.

MR. H. H. GALE wanted to know if the Society was strong enough to refuse to do

the dispensing unless the remuneration were adequate. The reply was that this was largely up to the individual pharmacist. Before any terms were agreed upon they would be submitted to branches for their comments.

Treatment of Resolutions

MR. H. T. FRANKS asked if resolutions from branch meetings would be treated in the same way as those passed at the Branch Representatives' meeting. THE PRESIDENT pointed out that the resolutions passed were not binding on the Council, but were put before them for consideration; it was not right that a resolution carried by some seventy-eight votes to forty-five should be binding on the Council.

MR. HOLMES asked how members could be assured that the Council knew the feelings of the branches, which so rarely saw any member of the Council.—THE PRESIDENT: Every branch is entitled to have a member of the Council down for one meeting a year.

MR. FRANKS was pleased to hear the president say he desired all dispensing to be reserved to pharmacists, and that they should ask for adequate remuneration from the Government, but, so far as he remembered, Mr. Linstead had shown at the Branch Representatives' meeting a decided reluctance to support either. He would like to know which officer represented the attitude of the Council, as the two speeches definitely did not tally. THE PRESIDENT replied that Mr. Linstead had been referring to the odd 5 per cent. of dispensing outside the proposed National Health Service.

Limitation of Apprentices

Miss M. A. E. ASHPLANT suggested that, if there were too many pharmacists, it would be better to limit the number of apprentices rather than the number of pharmacies.—This was being done by limiting the number allowed to each pharmacist. After the war, some form of inspection to establish the suitability of a pharmacy for training would be carried out.

MR. HOLLOWs said that such inspection would result in a good many pharmacies being rejected, and MR. CLARKE asked if the Council visualised pharmacies devoted solely to the dispensing of medicines, or whether pharmacists would have to continue to trade in many outside lines in order to make a living. THE PRESIDENT

thought that pharmacies would remain very much as at present.

MR. FRANKS asked if it was the policy of the Council to press for the abolition of the National Formulary, and to ensure equal remuneration in England and Scotland. The reply was that the National Formulary was a matter for the medical profession, as it was issued for their convenience. Scottish pharmacists were anxious that the fees for England should be raised to the Scottish level, and not vice versa.

MR. R. H. GUYMER said that the British Medical Association had presented a much stronger case to the Government than had the Pharmaceutical Society. He wondered whether it was because the doctors sup-

ported their leaders better, or whether they had better leaders. THE PRESIDENT replied that the strength of the B.M.A. rested largely on its representation in Parliament and on the fact that they were the strongest "trade union" in the world. The Council hoped to be able to establish a parliamentary fund to help suitable candidates.

Presentation to ex-Secretary

THE PRESIDENT then presented MR. D. EVANS with a fountain pen and clock as an appreciation from the branch for over ten years' work as secretary. MR. CLARKE proposed, and MR. HOLMES seconded a vote of thanks to the speaker.

CANDIDATES AT BLOOMSBURY SQUARE

A MEETING to afford London pharmacists the opportunity of hearing the policies of candidates for the Council was organised by the West Ham and East Metropolitan Branch of the Society and held at 17 Bloomsbury Square on March 1. MR. W. H. CLOUD (president, West Ham and Eastern District Association of Pharmacists, and branch chairman) presided, and eight candidates attended. The audience included prominent members of most of the other London branches.

A "Rebel's" Apology

MR. J. ROSS-MANSELL said he should no doubt apologise for his candidature as he had not previously identified himself with pharmaceutical politics. He was, however, a rebel, and had no confidence in the retiring members of the Council. He wished to overcome apathy in the craft, and disagreed that remuneration should be the last consideration. So soon as the war was over the so-called "drug girl" should disappear from retail pharmacies.

MR. A. A. WOMPRA advocated a National Health Service based on the Dawson report, called for employee and company representation on the Joint Committee, and advocated a comprehensive rehabilitation scheme for ex-Service pharmacists. He was against the Joint Industrial Council agreement, and would use his influence if elected to have it cancelled or radically amended. He also called for the implementing of resolutions passed at Branch Representatives' meetings.

MR. W. ATKINSON stood as an employee, was also antagonistic to the J.I.C. agreement, and had taken the initiative to organise resistance against it. He was

against differentiation between the es in pharmacy. He desired legislation initiated to counteract the Jenkin judgment.

MR. J. F. MCNEAL claimed that the uproar against the J.I.C. agreement showed that employees had not the ability to protect their own interests. He divided any division of members into employers and employees.

MR. H. STEINMAN said he was young enough to be enthusiastic and old enough to have gained the experience to know what was required. He appealed for representation for Manchester and surrounding area, which included a considerable section of the Society's membership. His policy was to improve the Society's prestige, to scrutinise finances, and for control under the Pharmacy Acts not to be oppressive.

MR. G. H. ARMITAGE said his policy was "the Society for its Members," and called for the extension of the "protective clause" in the Charter to non-proprietors.

MR. W. E. PHILLIPSON said he stood for the thousands of pharmacists fighting tide of commercialism. He asked pharmacy to be organised in an atmosphere of skilled idealists.

MR. W. S. HOWELLS claimed that the constitution of the Joint Committee was representative of all pharmacists, and as far as support as an experienced pharmaceutical negotiator, a past-president of the Society, and an influential member of the National Pharmaceutical Union.

Retiring Members Questioned

MR. W. A. SMITH asked the candidates who were retiring members of Council whether no action was being taken against firms accused of contravening the code of ethics.

MCNEAL said a specific case was now before the Law Committee, but as the code of ethics had only recently been adopted by the policy of Council to give adequate weight before taking action.

In reply to MR. F. B. ROYAL, MR. MCNEAL said there were now five employees of Council, but agreed that three hospital employees while, of the two remaining, one was engaged in a business carried on by his father.

Ross-Mansell was asked by MR. G. how he proposed eliminating the unqualified from pharmacy, and replied that he believed it possible for an auxiliary corporation of professional unqualified to be ranged, and that no other personnel should be allowed to practise.

PHILLIPSON, in reply to MR. S. RONSON, explained his proposal for a National Association of Pharmacists, but stated that at the moment it was best for pharmacists to organise themselves in various trade unions, the body to be being the one corresponding mostly to their actual work.

MR. DEWAR asked why the Council did not implement its own resolutions, and

cited as an example the failure to fly a flag that day (St. David's Day). MR. MCNEAL explained that, for the period of the war, the Council had decided not to fly flags on the saints' days.

MR. W. ABLE asked all candidates whether they agreed that all dispensing under any new scheme should be done personally by pharmacists alone, without unqualified assistance, even under supervision. MESSRS. MCNEAL and ATKINSON gave an unqualified affirmative answer. The others agreed in principle but saw difficulties, MR. HOWELLS pointing out the claims of Apothecary Hall assistants.

MR. STEINMAN was asked whether, if elected to the Council, he would use his influence as a member of the Executive of the N.P.U. to persuade his colleagues on that Executive to leave the J.I.C. at the first opportunity if employees on that Council were still solely represented by officials of large trade unions not entirely pharmaceutical. The reply was that the N.P.U. had not asked for the J.I.C., and considered it the duty of employees to set up their own house in order and obtain the representation they wanted.

SUPPORT FOR EXCLUSION OF COMPANIES

DECLARATION in favour of a policy of collaboration with financial interests" made at a meeting of the Middlesbrough branch of the National Pharmaceutical Council held recently, Mr. A. W. Thompson in the chair. Discussion took place on a report given by Mr. Brackenbury in the recent N.P.U. Conference, and a tendency in certain quarters to invite co-operation of financial interests in forthcoming National Health Service discussions, as in the report, was deprecated. Pharmacy and pharmaceutical matters, it was said, must be governed by pharmacists not by laymen.

In a discussion on the N.P.U. business finance scheme, MR. SALMON had supported a proposal that interest to lenders should be raised to 3 per cent.; he claimed that financial backing for the scheme would be forthcoming. MR. HARRISON drew attention to an advertisement relating to the formation of a new co-operative company to establish pharmacies throughout England and Wales, and the branch hoped others would take note of the advent of a serious competitive menace.

The following proposal by MR. HARRISON, seconded by MR. GREENWOOD, was carried unanimously:—

"That this Branch of the N.P.U. fully supports the policy of the Society's Council in not inviting the company chemists to participate as members of the Pharmaceutical Joint Committee. It bases its support on the following grounds:—

(1) That in discussions on the National Health Service the pharmacists employed by company chemists would have no control.

(2) That the company chemists strongly oppose the idea of a Pharmacy Board which, in the opinion of the branch, would be the ideal method for promoting the true welfare of pharmacy.

(3) That an increasing menace is present in the bazaars and stores which already, before the war, were putting aside part of their premises as pharmacy departments, a menace likely to increase after the war if steps are not taken to check it. (Witness the recent formation of National Co-operative Chemists, Ltd.)

"On these grounds this Branch also feels that it cannot support the candidates for the forthcoming election mentioned in a recent pamphlet sent out by the Nottingham Branch of the Pharmaceutical Society, which included the name of an ex-president who was president when the 1941 Act was passed."

The Branch then pledged its support for the following Council candidates: Messrs. Hirst, Wilson, Meldrum, Howells, McNeal, and Steinman.

PHARMACEUTICAL SOCIETY OF IRELAND

MR. C. J. CREMEN (president) was in the chair at a meeting of the Council of the Pharmaceutical Society of Ireland held in Dublin on March 13. Messrs. J. K. Whelehan, P. C. Cahill, J. P. Kissane, P. Brooke-Kelly, M. Costelloe, T. C. Scott, W. G. Cunningham, J. Gleeson, J. A. O'Rourke, P. A. Brady, H. P. Corrigan, T. B. O'Sullivan, F. X. Meagher, P. Fullam, P. F. McGrath, and M. Power were also present. Mrs. M. Warwick, Dublin, wrote thanking the Council for an expression of sympathy on the death of her husband; and Mr. T. B. O'Sullivan, Dublin, thanked the Council for an expression of sympathy with him on the death of his mother. Mr. F. W. Adams (deputy secretary, Pharmaceutical Society of Great Britain), in a letter to the president, wrote acknowledging a resolution agreeing to the nomination of Messrs. Wells, Maplethorpe, and Linstead to serve on the British Pharmacopœia Selection Committee, and stating that the Pharmaceutical Society of Northern Ireland had also agreed to the suggested names.

Negotiations on Veterinary Sales

Mr. W. Hanly (secretary, Limerick Retail Chemists' Association) wrote: At a recent meeting of the above Association, a discussion took place on the communication received from May & Baker, Ltd., about the distribution and sale of their veterinary preparations. The committee renewed its strong condemnation of the policy adopted by the company, and offered its strongest support in any action that might be taken by the Council.

THE PRESIDENT: I am not in a position at the moment to make any comment on this letter. You will appreciate the difficulty of commenting at the present stage upon discussions between the firm concerned and the representatives of this Society and the Irish Drug Association. I can understand a letter of this nature coming from the Limerick Association, and would like to assure them that the matter is being considered carefully by the committee dealing with it.

MR. MEAGHER: The Limerick Association are to be congratulated on the way in which they have taken this matter up.

MR. KISSANE asked if negotiations were still proceeding with May & Baker, Ltd., regarding the sale of the company's veterinary preparations by pharmaceutical chemists. THE PRESIDENT said he had already made it clear in his statement on the letter

from the Limerick Association that he was not in a position to add anything to what he had already said. He could understand the impatience shown by the chemists in this country who had taken a vital interest in this matter, but he could assure them that the city members of the Society were just as interested. He was sure members of the Council would agree with him that at this particular time he was not in a position to make a statement.—MR. KISSANE Thanks, Mr. President.

Registration and Membership

Mrs. M. Hunt (*née* Comerford) was submitting marriage certificate, and granted change of name in the register. The following changes of address were notified: Mr. G. Chambers, M.P.S.I., 62 The Quay, Waterford; Mrs. S. C. O'Flynn, M.P.S.I. (*née* Hogan), to 55 Raggar Road, Rathgar, Dublin; Mr. A. Rush, M.P.S.I., to Main Street, Templemore, co. Tipperary; Mr. R. Morro, L.P.S.I., to Conway Square, Newtownards, co. Down; Mr. J. Hanley, Assistant, 108 O'Connell Street, Limerick; Mr. McGee, Assistant, to Adare, co. Limerick; Mr. D. F. O'Dwyer, Assistant, to 12 Church Street, Athlone; and Mr. H. E. Deak R.D., to 54 Capel Street, Dublin. The following who submitted Matriculation certificates were granted Preliminary registration: Misses K. M. Donnellan, M. I. Dagan, R. M. T. Leahy, M. E. Lynch, O'Malley, M. J. Walsh, and C. L. Leona. Messrs. J. J. Broderick, P. P. Hayes, L. Horan, P. MacArtain, E. B. McWey, O'Reilly, and J. F. Rafferty.

The Licence certificates of the following were signed and sealed: Thomas J. Bard, John J. Noonan, Timothy F. O'Driscoll and Anthony A. P. Toher. The following were elected members of the Society: Messrs. W. J. Butler, P. Fanning, S. Lea, T. A. Matthews, P. O'Connor, A. C. Ruane and Miss N. O'Shea. The following were nominated for membership: Miss S. Barry, Victoria Villas, Old Blackrock Road, Co. Cork; Messrs. C. Clarke, 59 Lower Dorset Street, Dublin; J. G. Duffy, 7 Alexandra Place, Wellington Road, Cork; E. F. McCaffrey, Market Street, Sligo; and C. Newell, Medical Hall, Ballinrobe.

The reports of the House, Law, and Schools Committees were submitted and approved. Mr. Thomas R. Bourke, Dublin, was appointed examiner to the Assistant examination for the year to April 1, 1947.

III. PHARMACY BILL PASSES SECOND READING

The Minister for Home Affairs (the Right Hon. Edmond Warnock), moving the second reading of the Medicines, Pharmacy and Poisons Bill (Northern Ireland) in the Ulster House of Commons recently, said:—The House, no doubt, fully realises that it is the duty of the Home Office constantly to review legislation which does not fall within the province of "specialist" Ministers. The law relating to pharmacy and poisons requires revision and extension from time to time, and it is to meet that requirement that the present Bill is introduced. The measure is one of a long series, and it has been prepared as a result of representations, originally made in 1941 by late Lieutenant-Colonel Mitchell, to my predecessor.

Access to Report from Great Britain

We had the advantage of access to the report of a Departmental Committee which sat in Great Britain, and of examining the legislation passed there in 1941 and now will be tried. I think there can be no doubt at the time has come for an overhaul of existing legislation and for a number of alterations. The whole question has been fully discussed with the Medical Faculty of the University, and with the Council of the Pharmaceutical Society of Northern Ireland, and the measure now before the House is—so far as these two interests are concerned—an agreed measure.

The first part is designed for the protection of sufferers from certain specified diseases. I am advised that there is a considerable sale of supposed remedies for such ailments, recourse to which keeps the sufferer away from the skilled practitioner until the malady is far advanced. I think I am right in saying that professional opinion is solidly behind this provision. We have introduced safeguards to ensure that the attention of qualified persons may be drawn to any such medicines. We have so inserted provisions prohibiting the advertisement of articles for procuring the abortion of women. Another important advance and public safeguard is the insistence of a statement of the composition or constituents of medicines sold to the public. We have also sought power to prohibit the sale by retail of medicines except from a shop. The object is to put an end to the sale of medicines from stalls at fairs or markets or other places. The sale of medicines by these itinerant vendors is a source of danger.

Part II deals with pharmaceutical chemists and the Society. At present it is not necessary for any registered pharmaceutical chemist to become a member of the Society, and once he qualifies and is registered the Society has no further jurisdiction over him. We propose that the Pharmaceutical Society of Northern Ireland should cease to be a voluntary association, and that membership or associateship should be conferred by law upon every person registered as a pharmaceutical chemist or druggist. At the end of 1944 only 50 per cent. of registered pharmacists in Northern Ireland were members of the Society; and of 116 registered druggists, only seventeen were associates. Compulsory membership will, I think, inure to the benefit of the public. The Bill provides for the establishment of a Statutory Committee to act as the disciplinary body of the profession. I do not think it right to give this body the absolute power to deprive a man of his means of earning a livelihood, and have incorporated a provision whereby the person affected may appeal to the Supreme Court. It is important to chemists who qualify in Ulster to have their qualifications recognised in Great Britain, and a reciprocal arrangement exists with Great Britain, the Dominions and the Colonies. To maintain that reciprocity, examination standards must be kept at the same level as in Britain, and we have asked for power to assimilate the student courses.

Part Left to Experts

When I come to Part III, I have to leave myself, and to ask the House to leave itself, in the hands of experts. This part regulates the sale of poisons, and repeals existing legislation relating to their sale or supply. The third Schedule is in three parts (see *C. & D.*, March 17, p. 279). I have had the inestimable advantage of help from the University and from the Society, and, while thanking all who have given this essential help, I would specially thank Professor Mayr, Mr. J. T. Nicholl, and Mr. D. L. Kirkpatrick. While I do not suggest that any agreement reached between the Ministry and those most closely interested hampers the freedom of the House in any way, I recommend the measure to the House as a substantial advance.

N.P.U. Purchase and Guarantee Fund.—Pays interest on investments made by pharmacists.

ULSTER CHEMISTS' ASSOCIATION

THE monthly meeting of the Executive Committee of the Ulster Chemists' Association was held on March 6, Mr. A. E. Johnston (president) in the chair. Business was condensed to permit a second meeting in the evening, at which the Medicines, Pharmacy and Poisons Bill (Northern Ireland) was to be discussed.

Letters were read from the Chemists' Friends Association concerning the setting up of a local C.F. Committee in Northern Ireland; and the secretary was instructed to suggest that the composition of the Committee should be five retailer members appointed by the U.C.A. and three manufacturers' representatives appointed by C.F. wholesalers in Northern Ireland.

Local Associations

THE PRESIDENT referred to the invitations that had been received by himself and the secretary from the Londonderry Chemists' and Druggists' Association to attend a meeting in Londonderry the following evening; arrangements had also been made to hold meetings in Coleraine, Ballymoney, Kilrea, Garvagh, Portrush, Portstewart, Bushmills and Ballycastle. Mr. R. F. McCartney, J.P., Ph.C., had consented to take the chair at a meeting that evening, and it was hoped that a strong local Association would be formed.

THE PRESIDENT spoke of the pleasure he and the secretary had had in attending the annual meeting and dinner of the East Antrim Pharmaceutical Association. There had been a large attendance, with every evidence of an extremely successful local Association.

THE SECRETARY reported that he had received from the Ministry of Labour a copy of amendments to the National War Formulary. He had written expressing dissatisfaction at the short notice given to chemists, and pointing out that doctors had received the amendments before chemists. A reply from the Ministry had stated that in future longer notice would be given, but that on the present occasion the delay in sending copies to chemists had been due to a change-over of offices.

Correspondence with the Ministry of Labour concerning shortages of menthol, camphor, and kaolin poultice was read, from which it was understood that the Ministry had arranged to take the matter up with the Ministry of Supply, with a view to securing proper supplies for Northern Ireland. Advice was received from the

Ministry of Agriculture that the scheme supplying Cymag for destroying rabid and rats would be introduced for the coming season; it was agreed to acquaint members of particulars of the scheme.

The election of the following as association was confirmed: *Pharmaceutical Chemists*, Messrs. G. L. Andrews, Robert Frew, J. Murphy, Hugh B. McCafferty, James R. sell, and T. McDonagh. *Apprentices*, Messrs. Ronald D. Duke, W. D. Gask, J. B. Moffett, Francis McConnell, J. Mulhern; and Miss Maureen McGrath.

THE SECRETARY presented the financial report upon a dance arranged by the social subcommittee, which showed a satisfactory balance. It was agreed to credit this to the subcommittee's account. THE PRESIDENT said it was hoped, at the end of the season, to give a substantial donation of proceeds of social evenings to the Northern Ireland Chemists' Benevolent Fund.

At the evening meeting of the Executive Committee, the pharmacy inspector (Mr. J. N. Patterson, Ph.C.) attended, by permission of the Ministry of Home Affairs, to outline the provisions of the new Medicines, Pharmacy and Poisons Bill (Northern Ireland). The Bill was discussed at length and it was agreed that a special general meeting of members, to which Association would be invited, should be held in Belfast on March 14. Mr. C. ABERNETHY (president, Pharmaceutical Society of Northern Ireland), who was present, kindly offered the use of the Society's premises.

THE CHAIRMAN expressed thanks and appreciation to Mr. Patterson for coming and Mr. PATTERSON suitably replied.

It was agreed to hold a special meeting of the Executive Committee on March 14 to prepare suggestions.

Special Meeting of Members

The special general meeting of members of the Association was held as arranged on March 14, Mr. A. E. Johnston in the chair. There was a large and representative attendance of members and associates. THE PRESIDENT explained that the Executive Committee had met the previous evening to prepare suggestions for consideration at the meeting. The proposals were fully discussed, and it was agreed that a special Executive Committee meeting should be held the following morning to prepare proposals for submission to the Ministry of Home Affairs, a copy to be sent to the Pharmaceutical Society of Northern Ireland.

TRADE REPORT

Current quotations for pharmaceutical chemicals, crude drugs and essential oils represent prices for wholesale quantities of standard quality. C.i.f. quotations do not include war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, March 21

CONDITIONS in the London markets continue much the same as last week. Business is on a routine scale, with the general steady. Price alterations have again been few. Business in PHARMACEUTICAL CHEMICALS is of average volume, and prices, with one exception, are unchanged. Makers' CITRATES announce an advance of three-pence per lb. in the POTASSIUM SALT.

de Drugs

Dealers state that, while a small continuing business is going on, trade on the whole is quiet, with a lack of inquiry. No supplies of ALOES are available at present. NADA BALSAM is at the higher level noted last week. BENZOIN is exhausted. CASCARA GRADA is wanted, but no stocks are available to meet the demand. Some COCHINEAL is afloat. First arrivals of Brazilian MENGOL have been cleared, but further supplies are expected shortly. RHUBARB is minimal and difficult to find. Exceedingly tight conditions obtain for SEEDS, with values practically unchanged. SPICES are about quotable change on the week, with some varieties rather scarce. Little TURERIC is available at present. Some varieties of CARNAUBA WAX are rather dearer.

essential Oils

There are no developments to report in these articles. Quoted values are unchanged, though supplies of uncontrolled material now cost negligible.

Pharmaceutical Chemicals

ACETANILIDE.—Makers' prices are steady at 3d. per lb. for crystals, and 2s. 6d. for powder.

ASPIRIN.—Demand continues fair. Prices, in quantities of 28 lb. to 1 cwt. (containers in brackets), are as follows: 4s. (1-lb.); 3s. 10½d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 8½d. (28-lb.).

BARIUM SULPHATE (*x-ray*).—Quoted at the following rates per lb., in quantities of 28 lb.—cwt. (containers in brackets): 1s. 5½d. (1-lb.); 4d. (4-lb.); 1s. 3d. (7-lb.); 1s. 2½d. (14-lb.); 1s. 2d. (28-lb.).

BORAX.—Makers' current rates are unchanged: B.P. quality, granulated, £42 per ton; crystal, £43; powder, £43 10s. Packed in one-cwt. bags, delivered carriage paid in Great

Britain in one-ton lots and upwards. Commercial grades, £8 per ton less.

CITRATES.—Makers announce an advance in POTASSIUM. Prices per lb., in 28-lb.—1-cwt. lots, are as follows (containers in brackets): 3s. 6½d. (1-lb.); 3s. 5d. (4-lb.); 3s. 4d. (7-lb.); 3s. 3½d. (14-lb.); 3s. 3d. (28-lb.); IRON AND AMMONIUM (SCALES), B.P., is at 2d. per lb. above, and SODIUM is at 3d. per lb. below these prices. POTASSIUM and SODIUM POWDER, one penny per lb. extra.

LACTATES.—Prices are as follows: LACTIC ACID.—Six-winchester lots, 3s. per lb.; smaller quantities, 3s. 1d. CALCIUM LACTATE.—Small quantities, 2s. 5d. per lb. CALCIUM SODIUM LACTATE.—Powder, small lots, 3s. 7d. per lb.; 14-lb., 3s. 4d.; 28-lb., 3s. 2d.; granular, one penny per lb. extra.

MAGNESIUM CARBONATE, LIGHT.—Makers' home market prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 3½d. (1-lb.); 1s. 2d. (4-lb.); 1s. 1d. (6-lb.); 1s. 0½d. (14-lb.); 1s. (28-lb.). Prices net one month.

MAGNESIUM TRISILICATE.—Home market prices per lb., for quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 3s. 9d. (1-lb.); 3s. 7½d. (4-lb.); 3s. 6½d. (7-lb.); 3s. 6d. (14-lb.); 3s. 5½d. (28-lb.). Prices net one month.

MANDELATES.—Makers' quotations are unchanged. SODIUM AND CALCIUM.—4 oz., 8 oz., and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb. net. AMMONIUM (50 per cent. solution).—4 oz., 8 oz., and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb. net. Packages extra and returnable.

MERCURY IODIDES.—The following are the makers' prices per lb.: RED, less than 7 lb., 20s. 8d.; not less than 7 lb., 20s. 2d.; not less than 14 lb., 19s. 8d. GREEN, less than 7 lb., 28s. 8d.; not less than 7 lb., 26s. 2d.; not less than 14 lb., 25s. 8d. YELLOW, less than 7 lb., 28s. 1d.; not less than 7 lb., 27s. 7d.; not less than 14 lb., 27s. 1d. net, carriage paid.

SANTONIN.—Home trade prices are as follows: 10 kilos and over, £62; not less than 5 kilos, £63; 2-4 kilos, £64; 1 kilo, £65; 500 gm., £66; 250 gm., £67; 100 gm., £68; less than 100 gm., £69 per kilo. Carriage paid in United Kingdom.

TERPINEOL.—Pure medicinal quality is available at from 3s. 3d. to 4s. per lb. for antiseptics of the chloroxylenol type.

THEOBROMINE.—The following prices are ruling: ALKALOID—Smalls, 44s. 6d. per lb.; 7 lb.—28 lb., 43s. SODIUM SALICYLATE.—Smalls, 26s. 3d.; 7 lb.—28 lb., 25s. 3d. Tins extra when supplied.

Crude Drugs

ALOES.—No stocks are available and it is difficult to obtain supplies at origin.

ANTIMONY.—Prices are steady at £112 10s. per ton delivered, for English minimum 99·6 per cent. regulus. Crude, 70 per cent., for home trade, is at £90.

ARECA NUTS.—Dealers' quotations for wormy Ceylon are steady at 90s. per cwt.

BALSAMS.—*Canada* remains at the recently advanced price of 11s. 6d. per lb.; *Peru*, firm at 7s. 9d. to 8s. per lb., duty paid; *Tolu* and *Copaiba* are unobtainable.

BELLADONNA.—Spot price of Indian leaf is unchanged at 6s. to 6s. 3d. per lb., according to test. Low-testing root (0·25 per cent.) is quoted at 2s. 3d. per lb.

BENZOIN.—There are no spot supplies available to meet the demand.

BISMUTH.—Metal is in good demand at 6s. 3d. per lb. for minimum 5-cwt. lots.

BUCHU.—New crop is quoted at 5s. 3d. per lb., landed.

CARDAMOMS.—Current spot prices are as follows: Aleppy greens, 5s. 6d. per lb.; Aleppy seed, 6s. 6d.; split seed, 5s. 6d.

CASCARA SAGRADA.—Demand continues but supplies are not available.

CHAULMOOGRA.—*Hydnocarpus*, spot, in tins in cases, 1s. 9d. per lb.

CHILLIES.—Mombasa is quoted on spot at 110s. per cwt.; no other varieties are obtainable.

CLOVES.—Zanzibar, spot, London, 1s. 5½d. per lb., sellers.

COCHINEAL.—Silvers, afloat, 6s. per lb., landed.

COCOA BUTTER.—Price is fixed at 1s. 5½d. per lb., ex factory or warehouse, except for sales made under Ministry of Food licence.

COLOCYNTH.—Spot price of fair white pulp remains at 2s. 10½d. per lb.

DIGITALIS LEAVES.—Portuguese leaf is quoted on spot at 140s. per cwt., and English at 2s. 6d. per lb.

ERGOT.—Scarce. Any available good-quality material would be worth 6s. 6d. per lb.

GUM ACACIA.—Kordofan cleaned sorts, spot, 75s. per cwt.; bleached, spot, 175s.; Talha, cleaned, 50s. per cwt., landed.

HENBANE.—Indian, 250s. per cwt.; some low-testing material may be had at 60s. per cwt.; Russian, 350s.; Egyptian (*muticus*), 75s.

JALAP.—Some 12·7 per cent. may be obtained on spot at 5s. per lb.

KAMALA.—Material testing 6 per cent. ash would be valued at between 2s. 6d. and 2s. 9d. per lb.

MENTHOL.—First available supplies of Brazilian have been cleared, but further parcels are afloat at 82s. 6d. per lb., duty paid, landed.

MYRRH.—Spot price of good-quality en sorts is unchanged at £20 per cwt.

NUX VOMICA.—Cochin, spot, steady at 37 d. per cwt.; shipment, 31s. 6d. c.i.f.

PEPPER.—Maximum prices of whole per, not picked over or cleaned, on sale to proce rs, 1s. 4d. per lb. for white and 1s. per lb. for black.

The final forecast of the pepper crop in the Province for 1944 ("Indian Trade Journal") states the area under pepper in 1944 in Malabar and Kanara is estimated at 99,800 acres (9,000 acres in Malabar and 8,800 acres in South Kanara), as against a final area of 104,821 acres (96,029 acres in Malabar, 8,792 acres in South Kanara) in the previous year. The crop is reported to have been affected to some extent by "poller" attack in Malabar. The seasonal factor is estimated at 95 per cent. of the normal for both the districts against 100 for each in the previous year. On this basis the yield is estimated at 9,060 tons (8,260 tons in Malabar and 800 tons in South Kanara) as against 10,010 tons (9,170 tons in Malabar and 840 tons in South Kanara) in the previous year. A preliminary forecast of the pepper crop in the Bombay Province for 1944-45 es that the crop is exclusively confined to the Konkan district in the Konkan. It is reported to be progressing satisfactorily.

PIMENTO.—There are sellers on spot at 1s. 3½d. per lb.

QUASSIA.—Spot, 37s. 6d. to 40s. per cwt., according to quantity.

QUILLAIA BARK.—Crushed or cut, spot, 1s. per cwt.; natural, 80s.; shipment, 65s., c.i.f.

RHUBARB.—In good request but supplies exhausted.

SENNA.—Alexandrian medium pods are at 4s. per lb.; Tinnevelly, manufacturing green, 6d. to 6½d.; hand-picked, 8½d. to 1s.; brown Alexandrian leaves, 1s. 3d. to 1s. 4d.; sifted, 1s. 2d.; Tinnevelly, No. 1, 9d. to 10½d.; No. 2, 7d. to 7½d.; No. 3, 5½d. to 6d.

SQUILL.—Spot price of Indian bulb, dried and sliced, varies between 40s. and 45s. per cwt., according to quantity. Portuguese, 80s. to 87s. 6d.

STRAMONIUM LEAVES.—Dealers quote Indian leaves on spot at 80s. per cwt.

STROPHANTHUS SEED.—100 per cent. Kordofan, unchanged at 7s. to 7s. 6d. per lb., according to quantity.

TRAGACANTH.—Medium grades are quoted as follows: No. 1, white, £130 per cwt.; No. 2, white, £115; No. 3, white, £100; No. 4, white, £85; pale leaf, £60; amber leaf, £50; amber, £40; brown leaf, £30; red-and-brown leaf, £25; red leaf, from £20; hoggy, £12 to £15.

TURMERIC.—Spot supplies are exceedingly small at present.

VALERIAN ROOT.—Only powdered root available; price, 120s. per cwt.

WAXES.—BEES'.—Available in London the following prices per cwt., delivered in store, U.K., effective October 16, 1944, for lots: Madagascar crude, 205s. to 230s.; other sorts of crude, 238s. to 245s. (Calcutta unavailable); British refined, 275s. to 300s.; British bleached slabs, 300s.; British bleached discs, 320s.; lots of under one ton, at premium as follows: 10-20 cwt., 2s. 6d. per cwt.; 20-

cents per cwt.; 1-5 cwt., 10s. per cwt.; under £1 at premiums as arranged by Association members at their discretion. CARNAUBA.—grey, 53s. per cwt., ex store, in minimum lots; shipment, nominal; Primeira, per cwt., ex store; shipment, 46s.; al., c.i.f.; medium yellow, 57s.; ship- 44s., nominal, c.i.f.; chalky grey, nominal; shipment, 40s., c.i.f. (c.i.f. include $\frac{1}{2}$ per cent. W.R.I.). CANDELILLA. arrive. Under 1 ton, 22s. per cwt.; 1-5 21s. 6d.; 5 tons and over, 21s. 6d., ex OURICURI.—Spot, 30s. to 33s. per cwt.; shent, 28s., c.i.f.

Essential and Expressed Oils

TOR.—"Firsts" are officially quoted at £8 per ton, and "seconds" at £80, both naked ex works, in bulk lots.

VE.—No change in English distillers' price £8. 6d. to 13s. per lb.

TUNSEED.—Controlled prices for bulk su seeds are as follows: Crude, £52 2s. 6d.; w. d., £55 5s.; refined edible, £57; refined de-ised, £58 per ton; all varieties quoted l ex works.

INGERGRASS.—Small quantities on spot are q quoted at 22s. 6d. per lb.

TMEG.—As noted last week, English dis- ti oil is dearer at around 45s. per lb.

PESEED.—No change in official quotation a 8 per ton, naked ex works.

Essential Oils Control

The following is a schedule of prices to users in original packages for oils imported by the Ministry of Food:—

sil	25s. 8d., plus duty, 2s. 3d.
rgamot	23s. 10d.
mphor	2s.
raway	20s. 9½d., plus duty, 1s. 10d.
darwood	3s. 8½d., plus duty, 3½d.
ary sage	129s. 1½d., plus duty, 11s. 6d.
riander	128s. 10d., plus duty, 11s. 6d.
ennel	11s. 6d., plus duty, 1s.
emon, cold-pressed, or Sicilian	17s. 4½d.
emon, distilled	11s. 9d.
me	47s.
utmeg	22s. 8d., plus duty, 2s.
range, bitter	18s. 6½d., plus duty, 1s. 7½d.
range, West African	10s. 3d., plus duty, 10½d.
eppermint	37s.
angerine	33s.
etivert	38s. 4d., plus duty, 3s. 5d.
Vormseed	15s. 3½d.
lang-ylang	15s. 6½d., plus duty, 1s. 4d.

TRADE MARKS

(From "The Trade Marks Journal," March 7)

- "BANDBOX"; for aromatic compounds for use in perfumery, in cosmetics, and the like; perfumery, toilet and cosmetic preparations (3). By Ashe Laboratories, Ltd., 120-22 Victoria Street, London, S.W.1. B629,858.
- "NARVILL" (with device of woman's head—disclaimed); for perfumes, cosmetic and toilet preparations, sachets and solutions for use in waving the hair (3). By Lennard Lee-Narvill & Co., Ltd., 216 Anlaby Road, Hull. 631,795 (Associated).
- "WENDY" (with device of a baby—disclaimed); for pharmaceutical products (4). By P. S. King, Laburnum, Corston, Somerset. 628,270.
- "KALSOGEN"; for chemical preparations for use in conservative dentistry to ensure protection and conservation of dentinal and pulp tissues (5). By The Amalgamated Dental Co., Ltd., 26 to 40 Broadwick Street, London, W.1. 629,248.
- "MENTHILLA"; for pharmaceutical preparations of menthol (5). By Quality Chemists, Ltd., Hove Park Laboratories, Hove. 629,274 (Associated).
- "SULFEDEXIN"; for pharmaceutical substances (human and veterinary), being sulphur compounds (5). By Abbott Laboratories, (England), Ltd., Wadsworth Road, Perivale, Middlesex. 629,607.
- "PENETRENE"; for all goods except inhalants, medicated pastilles and lozenges, infants' and invalids' foods, dietetic foods, medicated confectionery, insecticides and goods of the same description as insecticides (5). By H. Lloyd & Co., Ltd., 20 Asfordby Street, Leicester. 630,785.
- "PANTENOL" and "PANTHENOL"; for pharmaceutical substances (human and veterinary); infants' and invalids' foods (5). By Roche Products, Ltd., 40 Broadwater Road, Welwyn Garden City. 631,271-72 (both Associated).
- "FLYOL"; for insecticides (5). By Fubex, Ltd., 22 High Street, Kingston-on-Thames, Surrey B631,636.
- "PHOSVITON"; for pharmaceutical preparations (5). By Camden Chemical Co., Ltd., Northington House, Northington Street, London, W.C.1. 631,914.
- "RENTIS"; for insecticides (5). By Rentokil, Ltd., 168-70 Stockwell Road, London, S.W.9. 631,991 (Associated).
- "KALDENTINE"; for materials for the manufacture of artificial teeth and for application to natural teeth in dentistry (5). By I.C.I. (Plastics), Ltd., Wexham Road, Slough. 632,276 (Associated).

APPLICATION AMENDED AFTER ADVERTISEMENT

Specification No. 625,404, by Dr. H. C. Fleischer and W. Fleischer, should be altered so as to read, "Crepe paper, articles (not included in other classes) of crepe paper, and toilet paper (not medicated)."

EMPIRE MERCURY

by a New Zealand Correspondent

CINNABAR deposits at Puhipuhi, New Zealand, were first worked for mercury content some twenty years ago. They met with varying success, but were subsequently abandoned. More recently, experiments have been carried on by an Auckland syndicate in methods of recovery of mercury from the deposits, and today, from the deepest open-cast mine in New Zealand, with modern plant, the syndicate produces enough mercury to supply the greater part of the requirements of the Antipodes.

Inability to secure adequate and suitable machinery has been a problem, but, partly with the assistance of the New Zealand Mines Department, it has been largely solved. In spite of the lack of completely adequate equipment, 130 ft. of overburden of the cinnabar ore has been removed, requiring the shifting of 1,000,000 cu. yd. of rock and earth. The ore, pinkish in colour, varies in depth from 1 in. to 14 ft. The vein is, unfortunately, so broken that it is not possible to estimate the total quantity of cinnabar that may be available for treatment. Adjacent to the ore, kaolin of good quality has been found.

CORRESPONDENCE

Purchase Tax on Teething Rings

SIR.—With reference to a note on the liability to purchase tax of teething rings which was published in THE CHEMIST AND DRUGGIST, January 27 (p. 79), as the result of correspondence with this Department, I am directed by the Commissioners of Customs and Excise to inform you that it has been found necessary to review the position of certain articles which are being sold tax-free as "teethers," and the following instruction has now been issued for the guidance of Customs and Excise officials: *Teething Rings and Teething Beads.*—Plain teething-rings consisting solely of a shaped piece of bone, plastic material, or rubber, are not chargeable, but the addition of bells or other such devices renders the article chargeable under Class 14. Teething beads and all similar string articles for infants' use (e.g., a number of rings or discs strung together which have an alternative use as a rattle) are chargeable under Class 14, notwithstanding the fact that they may be offered for sale as "teethers."

Yours faithfully,

C. H. BLAKE, for Secretary,
London, E.C.2. Customs and Excise.

MISCELLANEOUS INQUIRIES

Coccidiosis.—*H. K.*—This disease, named from being due to coccidia, a class of the sporozoa, which form nodular suppurative foci in various parts of the body, causes loss of many food birds, especially chickens and turkeys. Excessive moisture, especially when combined with warmth, leads to rapid development of the parasite in droppings; hence it is important to keep the houses dry and well-ventilated. Drinking water should be in vessels raised from the ground and kept away from places where the chicks do their picking and scratching. Rearing on wire-netting floors and regular cleansing are useful preventive measures, and houses containing affected chicks should be cleaned out every four hours.

Hair Reconditioning Cream.—*T.*

The following cream has the consistency of a pomade (all parts by weight):—

Borax	..	..	..	4
Sulphonated oil	..	..	..	1
Precipitated sulphur	..	..	..	4
Camphor	..	..	..	½
Beeswax	..	..	..	6
Absorption base	..	..	..	54
Distilled water	..	..	..	30
Perfume	..	..	..	q.s.

The following perfume may be used:—

Bay oil	..	..	..	10
Pimento oil	..	..	..	5
Bergamot oil	..	..	..	8
Ti-tree oil	..	..	..	½

The following is a semi-liquid cream:—

Borax	..	..	..	1
Hartolan wax	..	..	..	5
Glyceryl monostearate	..	..	..	10
Beeswax	..	..	..	3
Liquid paraffin (not B.P.)	..	..	..	60
Glycerin	..	..	..	5
Distilled water	..	..	..	30
Cantharidin	..	..	..	0.001 per cent
Rosemary oil	..	..	..	½
Eau de Cologne essence	..	..	..	q.s.

Glycerophosphates.—*J. H. S.*—Your difficulty with the syrup is a common one and the only remedy is the slow one of filtration. Glycerophosphates are salts of two acids, A and B, which vary in proportion according to the method of making and also vary in solubility, the A salt being the more soluble. Heat decomposes them in glycerin and phosphoric acid, and then, of course, calcium phosphate is precipitated. In making the syrup of glycerophosphates no heat should be used at any stage, and if the syrup is bought the makers should be informed that the syrup is intended to be stored dilute.

March 24, 1945

THE CHEMIST AND DRUGGIST
SUPPLEMENT

The BAYER PRICE LIST



- and Therapeutic Index for **1945**

is now ready and
contains details of
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★ 'NIKETHAMIDE'

and re-introduces:-

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★ TRADE MARKS

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This winter new, humanly-presented advertising appears in national dailies, local papers and all the most widely read women's magazines, religious, medical and educational journals. A still wider public will realise that this highly concentrated food, considered so important for under-fives because of its richness in Vitamins A and D, also helps over-fives and adolescents to develop healthy bodies capable of resisting infection. More adults will discover what a fine antidote it is to fatigue and the common cold.

Display SevenSeas in your window and on your counter. The more you remind your customers that you stock this well-advertised product, the bigger your share of the rapidly rising sales.

There's no hold-up on supplies of bottled oil and orders can be despatched without delay. Government priorities restrict the manufacture of capsules, but available supplies are distributed as fairly as possible through wholesalers.

STANDARD OIL: Vitamin A 20,000 I.U.; Vitamin D 2,500 I.U. per ounce. CONCENTRATED: Vitamin A 60,000 I.U.; Vitamin D 6,000 I.U. per ounce.

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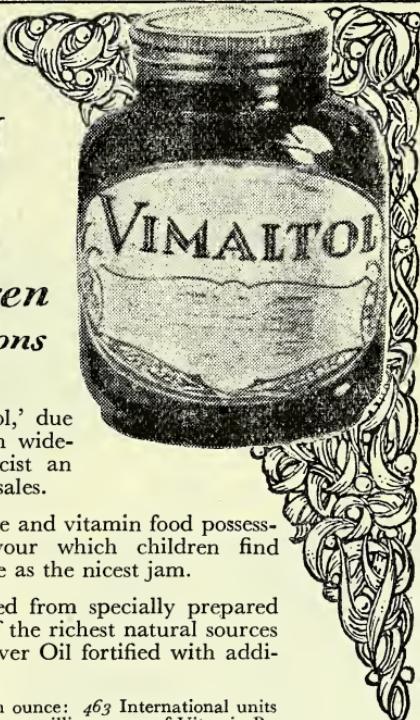
SOLVENTS

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CHEMICALS

VIMALTOL

*A Delicious
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Restorative &
Vitamin Food
for Infants, Children
& Adults - at all Seasons*



THE growing demand for 'Vimaltol,' due to its intrinsic merit, coupled with widespread advertising, offers the pharmacist an exceptional opportunity for profitable sales.

'Vimaltol' is a body-building, restorative and vitamin food possessing a delightfully sweet orange flavour which children find irresistible. In fact, 'Vimaltol' is as nice as the nicest jam.

The vitamins in 'Vimaltol' are supplied from specially prepared Malt Extract and Yeast, which is one of the richest natural sources of Vitamin B, together with Halibut Liver Oil fortified with additional vitamins and orange juice.

'Vimaltol' is standardised to contain in each ounce: 463 International units of Vitamin A and 9.94 of Vitamin D; also 0.09 milligrammes of Vitamin B₁, 3 of the PP Vitamin, 3.4 of Iron, 34 of Calcium and 34 of Phosphorus; all completely assimilable.

'Vimaltol' thus possesses definite advantages for increasing strength and weight and fortifying the natural powers of resistance. It is a product of the highest quality, and its high concentration makes it very economical in use.

By ordering your stocks now and displaying 'Vimaltol' prominently you can take the fullest advantage of its rapidly increasing popularity.

On the P.A.T.A.

Wholesale Prices: 1 lb. Jars 27/-; 2 lb. Jars 49/6 (Exempt from Purchase Tax)

Retail Prices: 1 lb. Jars 3/-; 2 lb. Jars 5/6

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Tragacanth

Karaya

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Copal

Mastic

Damar

SHELLAC and WAXES

Japan Wax, White
Bees Wax, Candelilla
Wax, Carnauba Wax

In natural and powder form

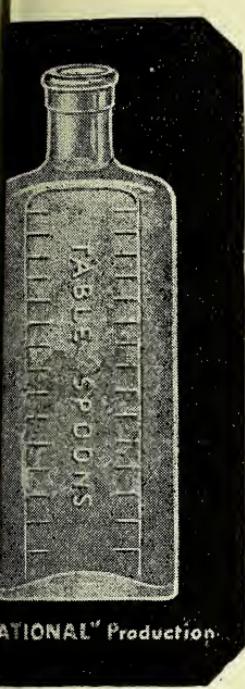
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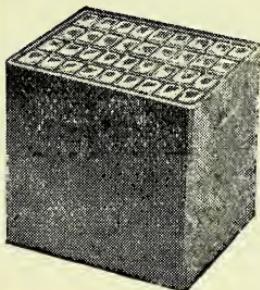
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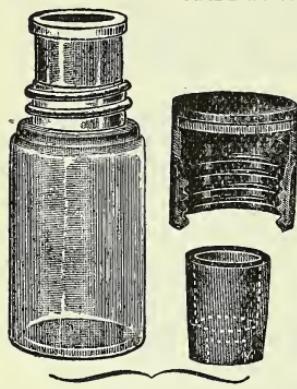
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In February 27 the Ilex Supply Co., Ltd. (manufacturers of Dr. Page Barker's scurf lotion), made an application for an interim injunction to restrain the Miles Cosmetic Co., Brixton, from marketing a preparation under the title "Miles' P.B. scurf lotion," on the ground that the plaintiff's Page-Barker scurf lotion was known throughout the trade as P.B. scurf lotion, and that they had used the abbreviation "P.B." in their advertisements. The application was supported by affidavit evidence by members of the trade that to sell such a lotion under the letters "P.B." would be calculated to cause confusion. The defendants appeared in person, and agreed to treat the motion for a trial of the action. A perpetual injunction was granted against defendants who were ordered to pay costs of the action and a sum by way of damages.

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(PAGE-BARKER DEPT.)

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TAS/GM.33

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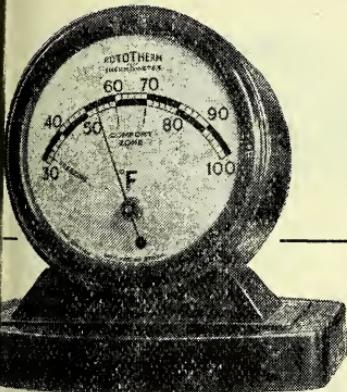
Retailers are advised to order SHERLEY preparations in good time, and they will thus be able to maintain a favourable position regarding their stock of SHERLEY's Dog and Cat Medicines.

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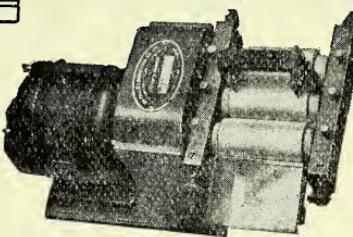
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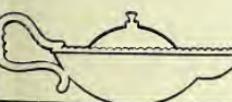
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The CHEMIST AND DRUGGIST SUPPLEMENT

This Supplement is inserted in every copy of The Chemist & Druggist

28 ESSEX STREET, LONDON, W.C.2

MARCH 24
1945

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Methyl Cellulose, 4 cwt.
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nt connexion, desires additional lines, com-
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euticals and Chemicals in Brussels invite
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manufacturing and marketing a line of Dog
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Firm of Manufacturers' Agents with long-
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now in Britain would be glad if Manufacturers
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Tablets required, in large or small quantities.
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UTOMATIC Cream Filler wanted at once; big
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Complete existing laboratory considered. Pattison,
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